

STEREO CASSETTE RECEIVER

KRC-453 D/L/N

SERVICE MANUAL

KENWOOD

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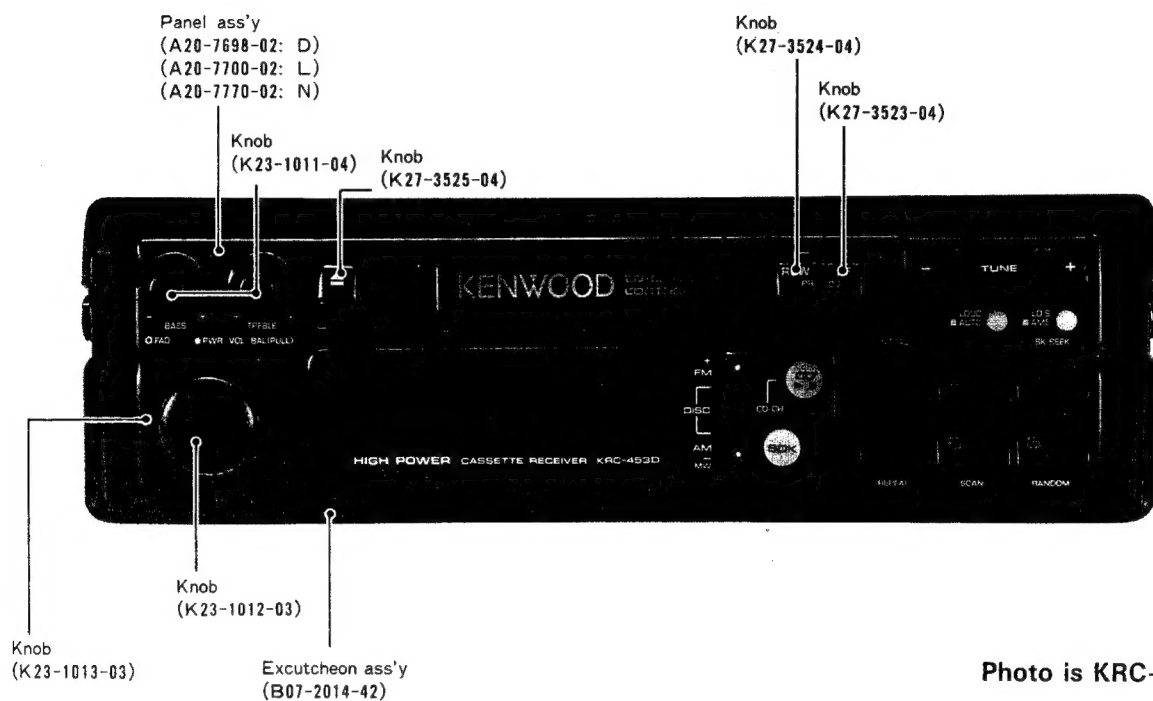
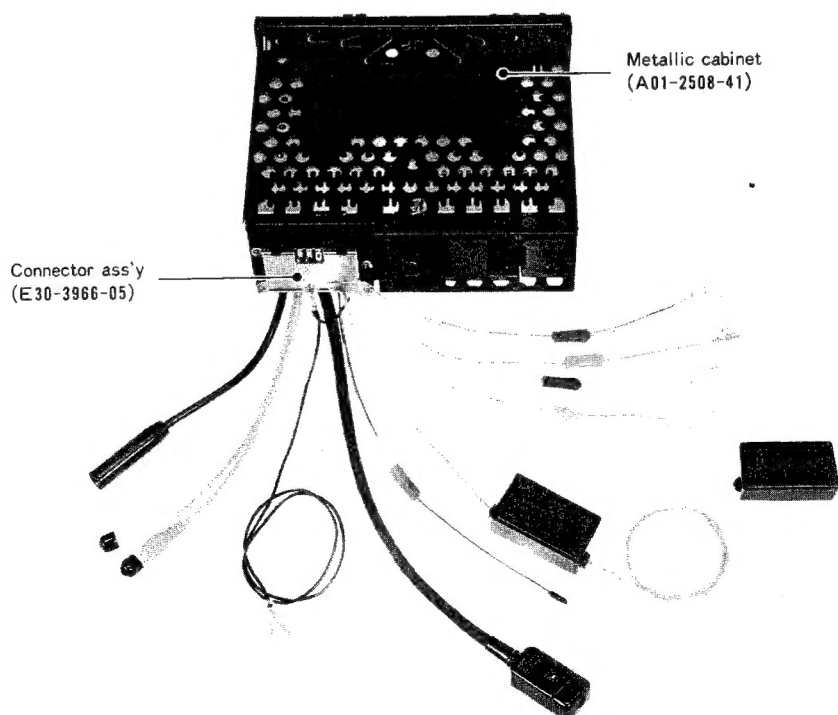


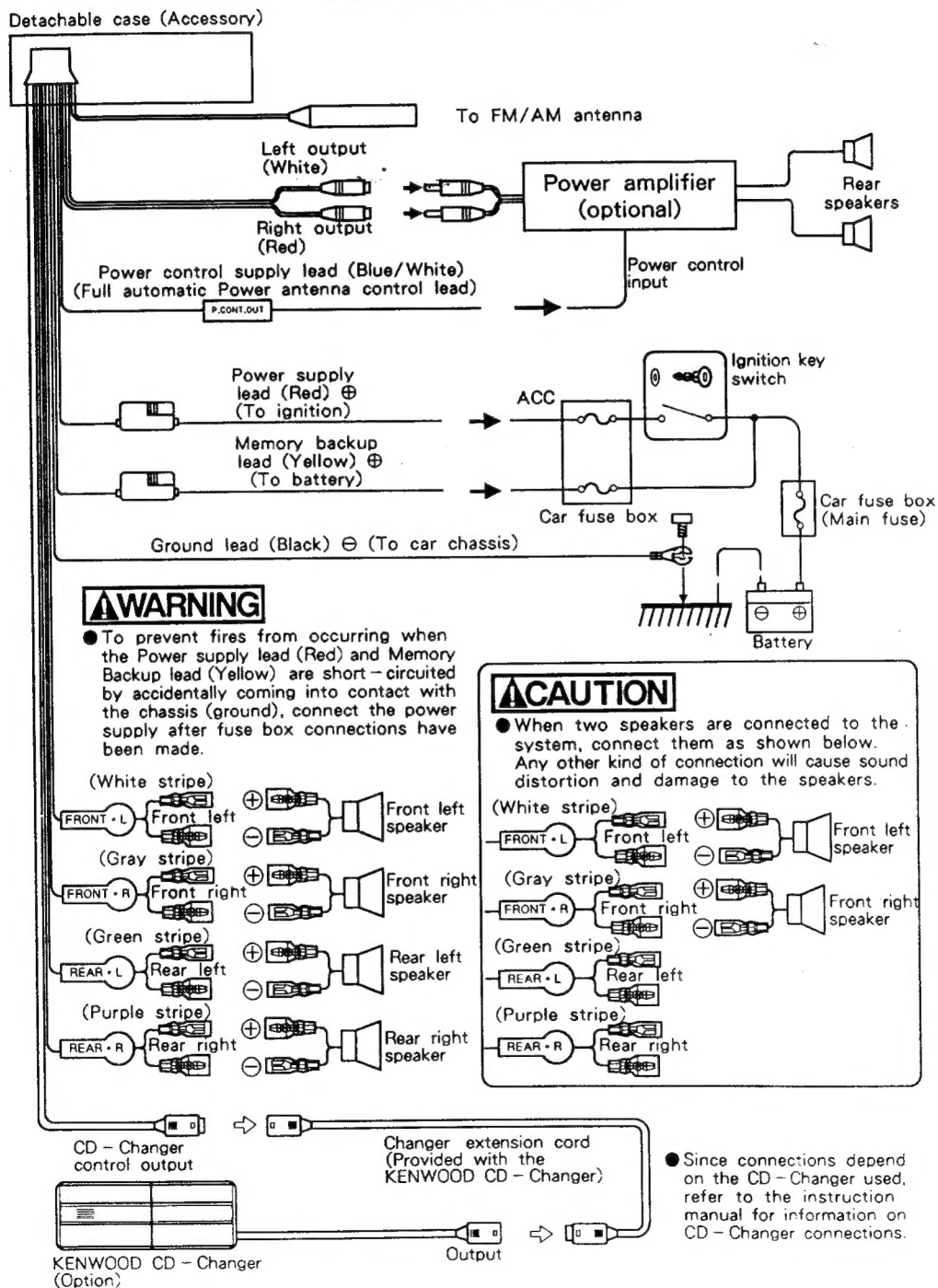
Photo is KRC-453D



CONTENTS

CONNECTIONS.....	2	PC BOARD	23
DISASSEMBLY FOR REPAIR.....	3	SCHEMATIC DIAGRAM	29
BLOCK DIAGRAM.....	4	EXPLODED VIEW (MECHANISM)	37
CIRCUIT DESCRIPTION	5	EXPLODED VIEW (UNIT)	38
MECHANISM DESCRIPTION.....	12	PARTS LIST	39
ADJUSTMENT	19	SPECIFICATIONS	BACK COVER
PACKING.....	22		

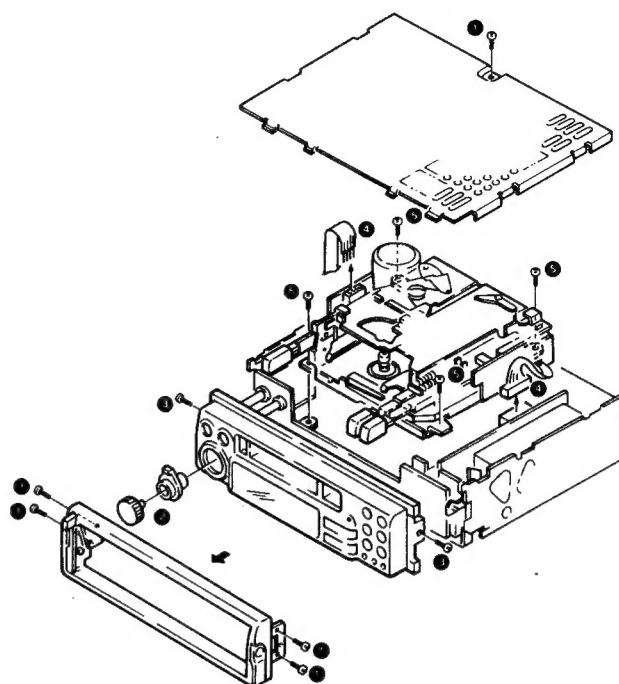
CONNECTIONS



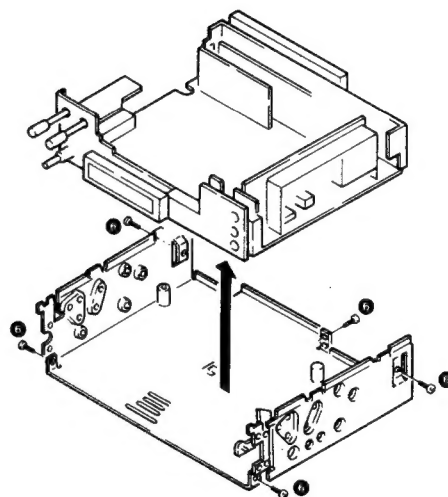
KRC-453 D/L/N

DISASSEMBLY FOR REPAIR

1. Remove the 5 screws (❶), then remove the top panel and the escutcheon ass'y.
2. Pull out the VOL and FAD control knobs (❷).
3. Remove the 2 screws (❸), and take out the panel ass'y.
4. Disconnect the 2 connectors (❹).
5. Remove the 4 screws (❺), and take out the mechanism ass'y.

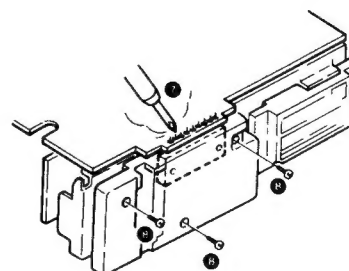


6. Remove the 6 screws (❻), and take out the whole of the circuit board.



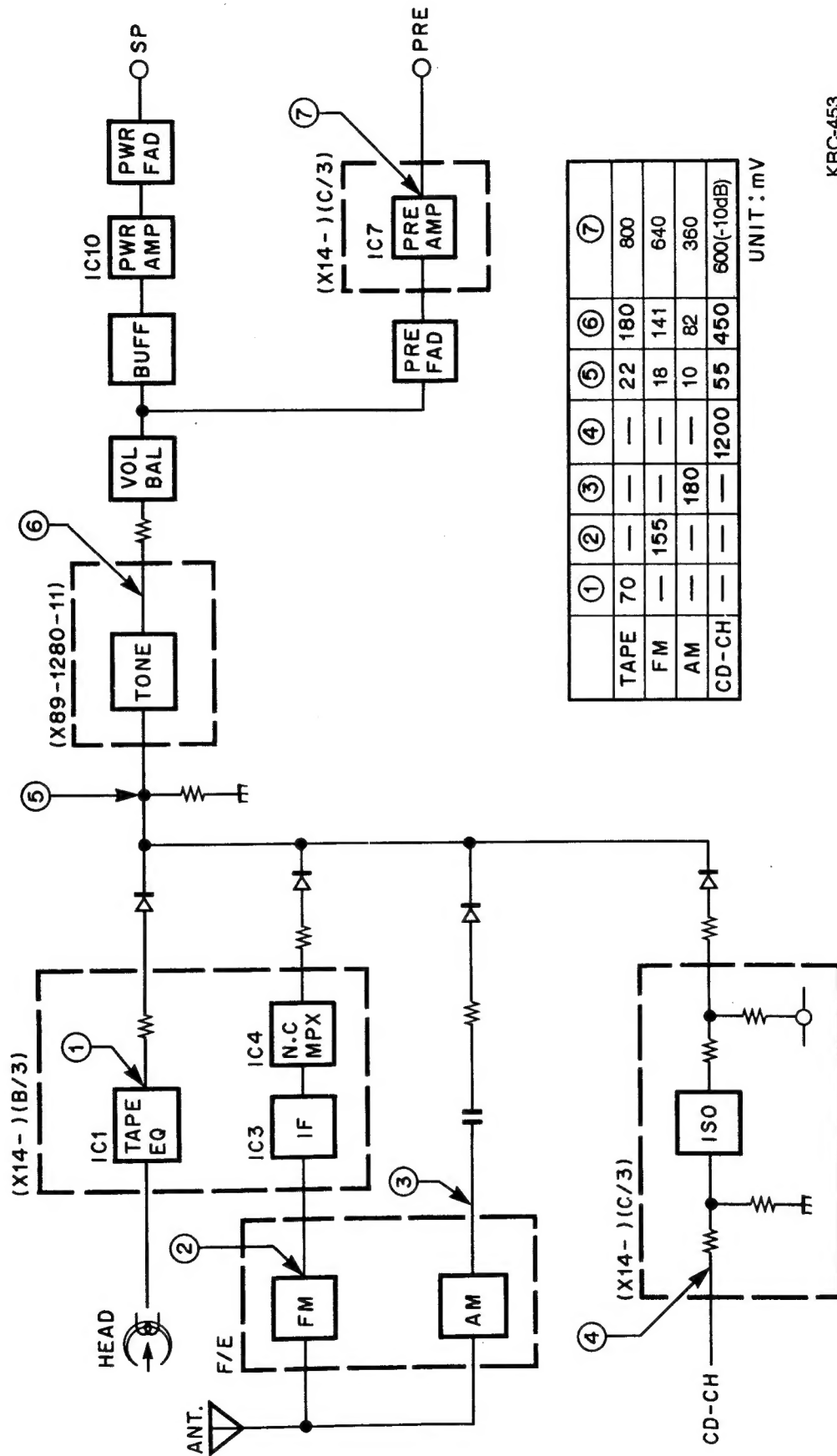
To remove the power ass'y:

7. Remove solder from the power IC (❼).
8. Remove the 3 screws (❽).
9. Take out the power IC together with the heat-sink, then separate the power IC from the heat-sink.



KRC-453 D/L/N

BLOCK DIAGRAM



KRC-453

KRC-453 D/L/N

CIRCUIT DESCRIPTION

Description of component SYNTHESIZER UNIT (X14-347X-XX)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	BA3424F	TAPE EQ AMP	
IC3	LA1140-K	FM IF AMP	FM IF signal amp.
IC4	AN7465K	FM MPX N.C	Demodulator, noise canceler.
IC5	M5280FP	ISOLATION AMP	CD-CH and AUX (J type) isolation amp.
IC6	NJM4565MD	1/2 V _{CC} BUFF	Buffers the voltage generated by Zener D and resistance division, and supplies voltage as 1/2 V _{CC} for the tone amp and preamp.
IC7	NTM4565MD	PRE AMP	
IC10	TA8215H	PWR AMP	
IC11	BA3906-V1	AVR	Supplies of V _{DD} , CE, COM 9V, FM 9V and AM 9V. MUTE output.
IC12	1723GF-593-3BE	μ-COM	Key control, other controls, PLL, LCD drive.
IC13	TC4081BF	AND Gate	For use with μ-COM key matrix (alternate SW).
IC14	NJM 4565M	SDK IC INPUT BUFF, BK BPF	D type only
IC15	TDA1579	SDK IC	BK/DK signal demodulation and detection. D type only
Q3	2SC2413K	FM IF AMP	Amplifies IF signal from F/E.
Q4	2SC2412K	SD BUFF	
Q5	2SC2412K	CRSC Driver	
Q6	2SC2412K	ANRC BUFF	
Q7	DTC144EK	AFC SW	OFF during seek, ON during receive.
Q10, 11	DTC144EK	FM/AM SIG. INHIBITOR	
Q12	DTC144EK	SIG. SW	ON in CD-CH and AUX modes.
Q13, 14	DTC144EK	EXT. INPUT SIG. INH.	
Q15, 16	2SD1757K	VOL BOOST SW	D type only
Q17, 18	2SD1757K	LOUD CON SW	
Q19, 20	2SD1757K	AUDIO MUTE	
Q21, 22	2SK433	PWR AMP INPUT BUFF	
Q23	DTC144EK	PWR AMP STBY SW	
Q24	DTC144EK	FM LO/DX SW	
Q25	DTC144EK	AM BS DRIVER	L type only
Q26	DTA144EK	AM BS SW	Q25 control L type only
Q27	DTA144EK	AM AGC CUT SW	
Q29	DTC144EK	SD INV.	
Q30~32	2SC2412K		
Q33	DTC144EK	SK LAMP ERRONEOUS LIGHTING PREVENTION SW	D type only
Q34	DTA114EK	PWR ON 5V SW	
Q35	DTC114EK		
Q36	DTA144EK	ACC DETECT	
Q37	2SB1370	ILLUMINATION AVR	10.4 V (Darlington)
Q38	2SC2412K		
Q39	DTA144EK	MANUAL RST	
Q40, 41	DTC144EK	LOCAL INH.	

CIRCUIT DESCRIPTION

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
Q42	DTC144EK	TAPE MUTE INH.	
Q43	DTC144EK	PACK IN INV.	
Q44	DTC144EK	AUDIO MUTE INV.	
Q46	2SA1037K	Audio Mute Driver	ON in MUTE mode to drive Q19 and Q20.
Q47	2SA1037K	LOUD SW Driver	ON in LOUD mode to drive A17 and Q18.
Q48	2SA1037K	VOL BOOST SW Driver	
Q49	DTC144EK	Mute SW	D type only
Q51~53	2SC2412K	PLL L.P.F	FM/AM Vt LPF.
Q54	2SC2412K	MECHANISM MUTE SW	MUTE in FF, REW and PROG modes.
Q55	DTA144EK		
Q56	DTC144EK		
Q57	2SA1428 (O, Y)	MOTOR Driver	

Terminal connections

DAUGHTER UNIT (X89-128X-XX)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	TC74HC04AF	CD-CH I/O	Buffer for data communications with I/O box in CD-CH mode.
IC2	NJM4565L-D	TONE CONTROL AMP	
Q1, 2	DTC144EK	TAPE SIG. INH.	Signal inhibition and MUTE output in Tuner and CD-CH modes.
Q3	DTC144EK	ACC DETECT	Outputs early MUTE when ACC is lowered or during manual reset. Performs early grounding of μ -COM CE pin when ACC is switched OFF.
Q4~6	2SC2412K		
Q7	DTC114EK		
Q11	DTC144EK	CD-CH REQ IN BUFF.	
Q12	2SC2412K	CD-CH CD CON BUFF.	
Q13	DTC144EK	CD-CH REQ IN BUFF.	
Q14	2SA1037K	CD-CH REQ IN CONTROL	When ACC is ON, recognizes whether CD-CH is connected or not, and outputs signal to μ -COM.

KRC-453 D/L/N

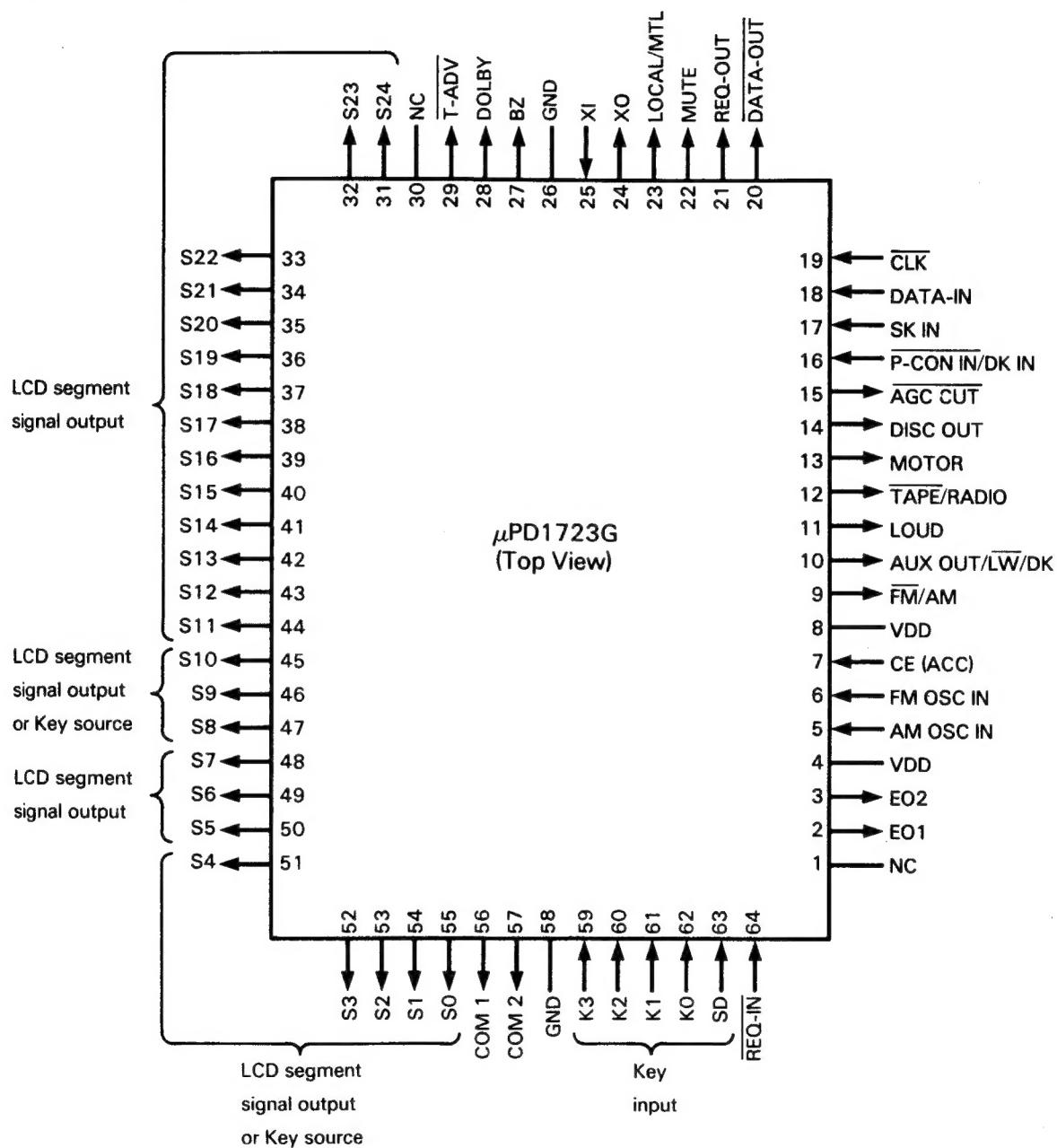
CIRCUIT DESCRIPTION

1723GF-593-3BE (IC12:X14-3472-70)

1723GF-594-3BE (IC12:X14-347X-XX)

Microprocessor IC

Terminal Connections



KRC-453 D/L/N

CIRCUIT DESCRIPTION

Terminal descriptions

Pin No.	Pin Name	I/O	Function Name	Operation
1	NC		NC	
2	EO1	O	EO1	PLL error output terminals. If the frequency obtained by dividing the local oscillation frequency (VCO output) is higher than the reference frequency, these terminals output "H" level. If not, they output "L" level.
3	EO2	O	EO2	
4	V _{DD}		V _{DD}	Power input terminal.
5	V COL	I	AM OSC IN	Inputs VCO output from 0.50 to 30 MHz.
6	V COH	I	FM OSC IN	Inputs VCO output from 15 to 200 MHz.
7	CE	I	CE (ACC)	"H" level when it is required that the device operate normally. "L" level when the device is not used.
8	V _{DD}		V _{DD}	Power input terminal.
9	PD1	O	FM/AM	FM/AM switching port. Outputs "H" during AM reception. Outputs "L" during FM reception. Fixed at "H" in TAPE, CD and AUX (J type) modes, and "L" while SDK (SDK type) is ON. During tuner call, the output varies depending on the band.
10	PD2	O	LW/DK	(E type) Outputs "L" during LW reception. Also outputs "L" during LW reception in course of tuner call. Outputs "H" in other cases.
			AUX OUT	(J type) Audio signal switching output port. Outputs "H" in CD-CH and AUX modes.
11	PD3	O	LOUD	Loudness control ON/OFF output terminal Switched to "H" or "L" when AUTO/LOUD key has been pressed for 2 sec. "H" → LOUD ON.
12	PC0	O	TAPE/RADIO	TAPE audio switching port. Outputs "H" in CD-CH and AUX modes.
13	PC1	O	MOTOR	Cassette mechanism motor ON/OFF control port. Outputs "H" while TAPE IN key is OFF. Outputs "L" in AUX, CD-CH and DK interrupt (SDK type) modes.
14	PC2	O	DISC OUT	Outputs "H" when operating CD changer. Outputs "L" during DK interrupt (SDK type).
15	PC3	O	AGC CUT	Normally, outputs "L" while CE is "H". Outputs "H" in AUX mode.
16	PA0	I	DK IN	(SDK type) Input port for DK detection. Inputs "H" when DK signal is present.
			P-CON IN	(J-type) Input port for AUX input detection. "L" in AUX mode and "H" in other cases.
17	PA1	I	SK IN	(SDK type) Input port for SK detection. Inputs "H" when SK signal is present.
18	PA2	I	DATA-IN	Input terminal of DATA from CD-CH.
19	PA3	I	CLK	Input terminal of CLK from CD-CH.
20	PB0	O	DATA-OUT	Output terminal of DATA to CD-CH.
21	PB1	O	REQ-OUT	Output terminal for requests to CD-CH.
22	PB2	O	MUTE	MUTE output terminal, which outputs "H" in MUTE period. MUTE is not output while CE is "L". If CE turns from "H" to "L" during MUTE output, MUTE also turns from "H" to "L".
23	PB3	O	LOCAL/MTL	LOCAL control output port in Tuner mode. Active "H". In TAPE mode, used as the METAL control output terminal which outputs "H" when METAL is ON.
24	XO	O	XO	X'tal connection terminals.
25	XI	I	XI	
26	GND		GND	
27	CGP	O	BZ	Beep sound pulse output port. Outputs 2.0 kHz pulse for 60 ms.
28	PL3	O	DOLBY	Dolby control output terminal. Outputs "H" when Dolby is ON.
29	PL2	O	T-ADV	T-ADV control output terminal. Outputs "L" only when T-ADV and alternate SW FF/REW are ON in TAPE mode.
30	LCD25	O	NC	Segment output terminals.
31	LCD24	O	S24	
44	LCD11		S11	

KRC-453 D/L/N

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Function Name	Operation
45	LCD10/KS10	O	S10	Segment output and key source terminals.
47	LCD8/KS8		S8	
48	LCD7	O	S7	Segment output terminals.
50	LCD5		S5	
51	LCD4/KS4	O	S4	Segment output and key source terminals.
55	LCD0/KS0		S0	
56	COM1	O	COM1	Common output terminals.
57	COM2	O	COM2	
58	GND		GND	
59	K3	I	K3	Key input terminals.
62	K0		K0	
63	AD	I	SD	Station detection input terminal. Inputs "H" when a station is detected.
64	INT	I	REQ-IN	Input terminal for requests from CD-CH.

KRC-453 D/L/N

CIRCUIT DESCRIPTION

Key Matrix



Momentary key



Alternate key



Initial-setting
diode switch

(E type)

	K0 (No. 62)	K1 (No. 61)	K2 (No. 60)	K3 (No. 59)
KS0 (No. 55)	DISC	SDK P-SEEK	DOWN/TRACK ⊖	UP/TRACK ⊕
KS1 (No. 54)	AUTO/LOUD	LOCAL/AME	AM/DISC ⊖	FM/DISC ⊕
KS2 (No. 53)				
KS3 (No. 52)	1/MTL	2/TU-CALL	3	4
KS4 (No. 51)	5/REP	6/SKS		
KS8 (No. 47)	TAPE IN	FWD/REV	FF/REW	ST
KS9 (No. 46)				
KS10 (No. 45)	BAND A			

(J, K type)

	K0 (No. 62)	K1 (No. 61)	K2 (No. 60)	K3 (No. 59)
KS0 (No. 55)	DISC	CLK P-SCAN	DOWN/TRACK ⊖	UP/TRACK ⊕
KS1 (No. 54)	AUTO/LOUD	LOCAL/AME	AM/DISC ⊖	FM/DISC ⊕
KS2 (No. 53)				
KS3 (No. 52)	1/MTL	2/T-ADV (TU-CALL)* ¹	3/DOLBY* ²	4
KS4 (No. 51)	5/REP	6		
KS8 (No. 47)	TAPE IN	FWD/REV	FF/REW	ST
KS9 (No. 46)				
KS10 (No. 45)	BAND A	BAND B		

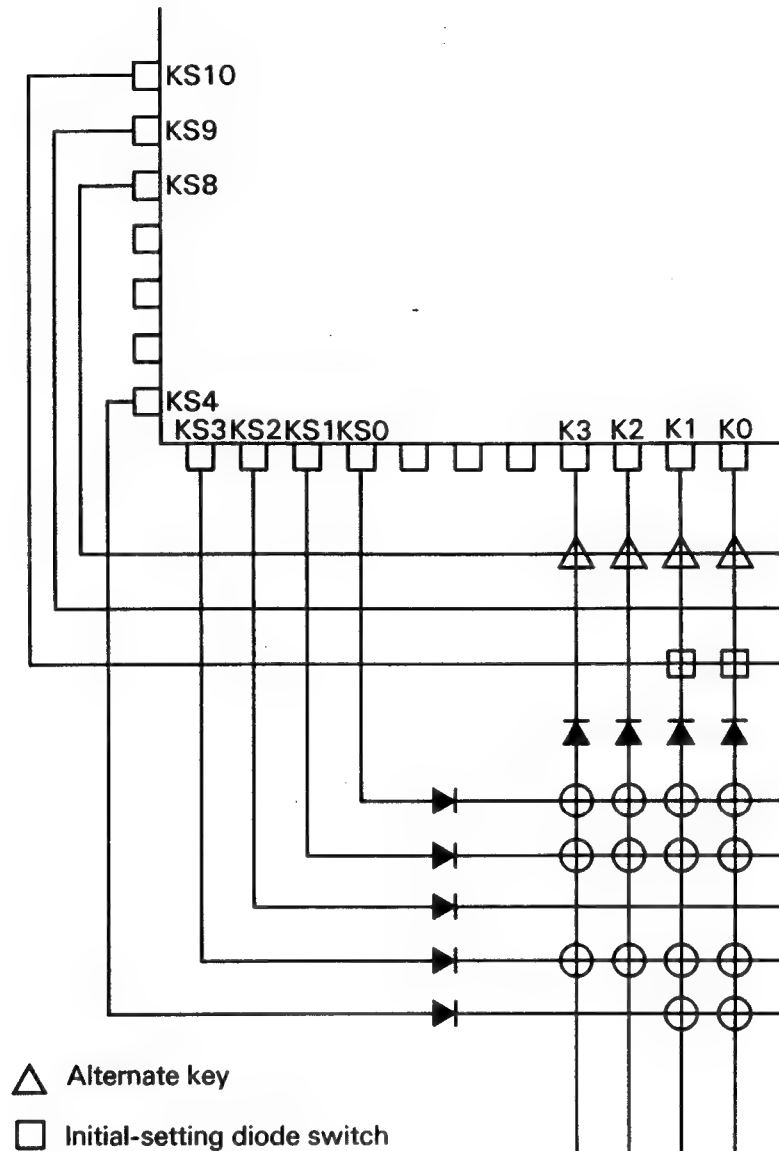
* 1: J type — 2/T-ADV, KRC-540 — 2

* 2: K type (KRC-540) — 3

KRC-453 D/L/N

CIRCUIT DESCRIPTION

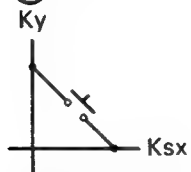
Key matrix configuration and model



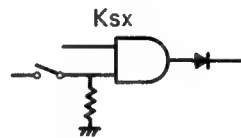
\triangle Alternate key

\square Initial-setting diode switch

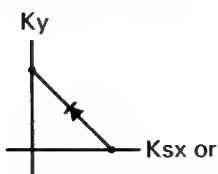
\bigcirc Momentary key



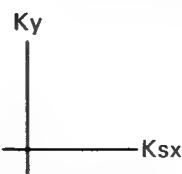
Momentary key



Alternate key



Initial-setting diode switch

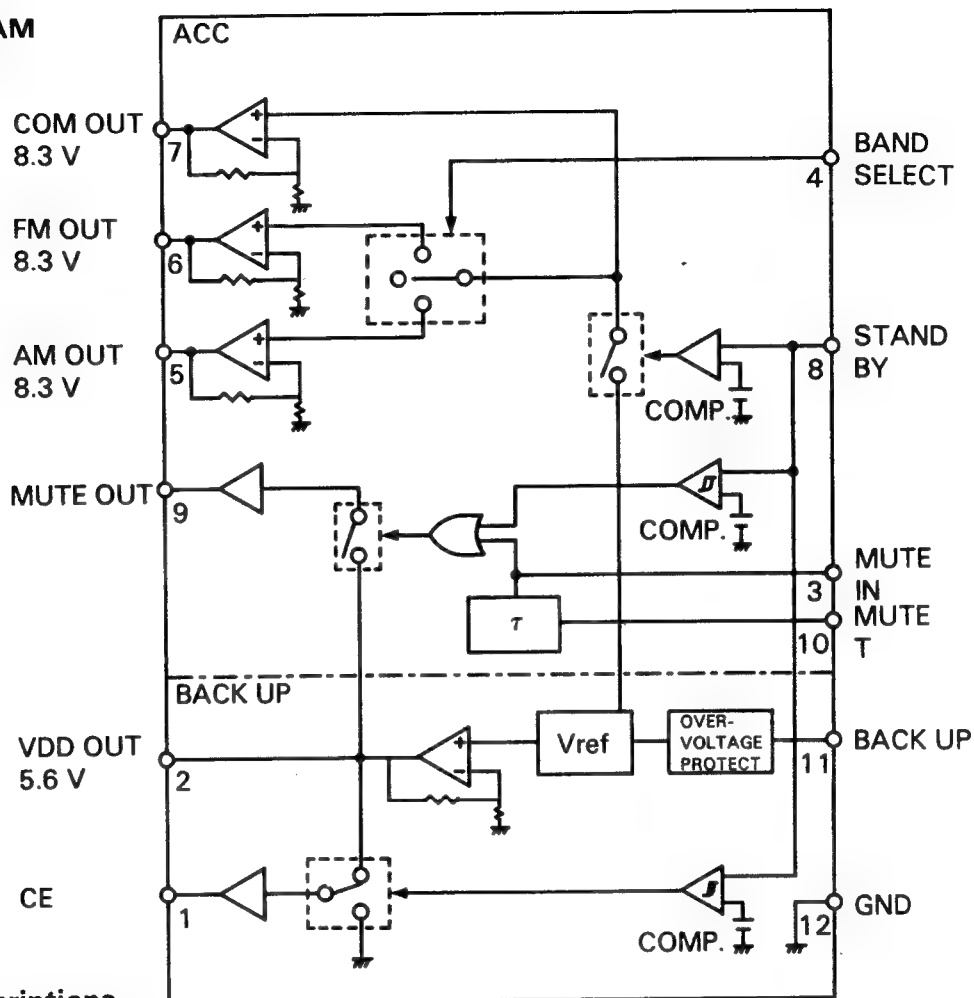


KRC-453 D/L/N

CIRCUIT DESCRIPTION

BA3906-V1 (IC11:X14-347X-XX)
Power Supply IC

BLOCK DIAGRAM



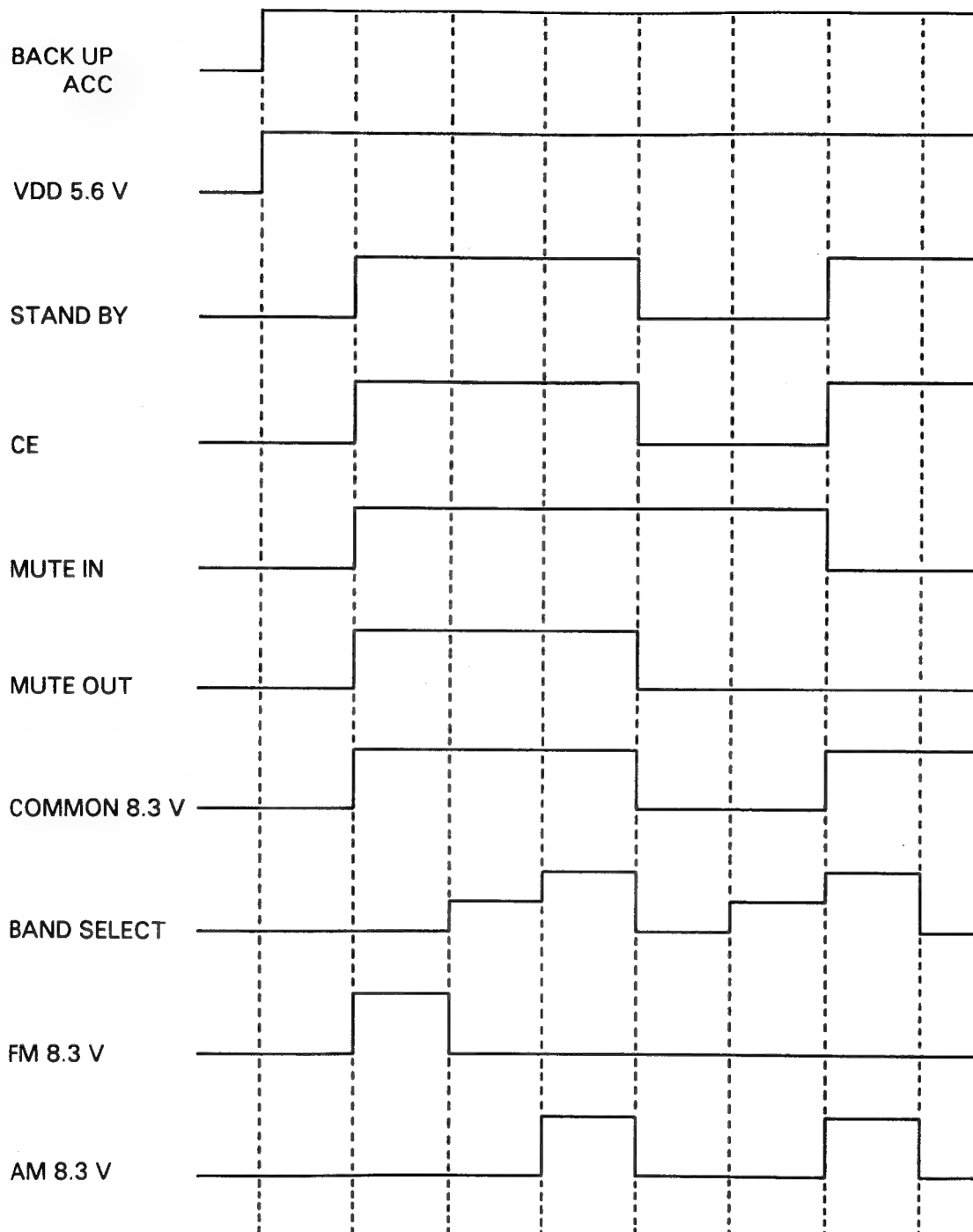
Terminal descriptions

1	CE	Outputs $0.82 \times V_{pp}$ or more when the μ -COM is to be operated normally, and outputs 0 V when it is not used. Holds 0 V even during stand-by.
2	V _{DD}	5.6 V power supply with 60 mA max. output current. For use with μ -COM. Permanently outputs voltage provided that the backup power is connected.
3	MUTE IN	Input terminal for MUTE from μ -COM or other external sources.
4	BAND SELECT	AM/FM output selection input with 3-state input. 8.3 V power supply with 145 mA max. output current. For use in AM reception.
5	AM OUT	Outputs power when "H" is input to BAND SELECT terminal.
6	FM OUT	8.3 V power supply with 250 mA max. output current. For use in FM reception. Outputs power when "L" is input to BAND SELECT terminals.
7	COM OUT	8.3 V power supply with 125 mA max. output current. For use in tone control. The power can be used as the system common power for the volume/balance control, for the equalizer, in the cassette tape deck, and for the varicap in the electronic tuner. Power is output when STANDBY terminal is 6.5 V or more, regardless of the BAND SELECT terminal position.
8	STAND BY	0 V for stand-by mode, in which signal is output only from V _{DD} terminal. The voltage at this terminal determines CE output and MUTE OUT output as well as AM OUT, FM OUT and COM OUT outputs.
9	MUTE OUT	MUTE transistor driver.
10	MUTE	Time constant terminal for MUTE IN.
11	BACK UP	Connected to backup power and ACC power of the vehicle.
12	GND	Input/output timing chart Ground.

KRC-453 D/L/N

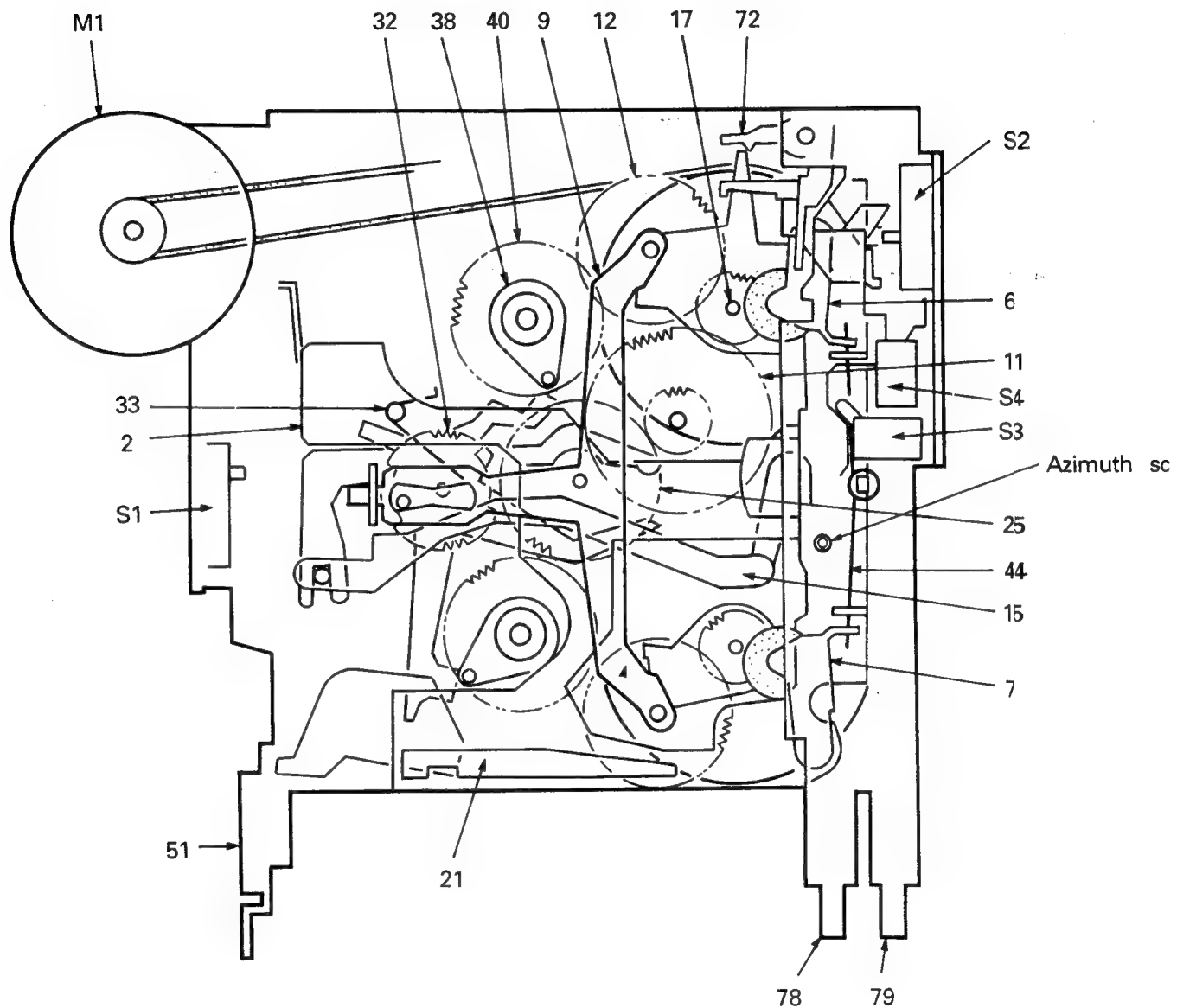
CIRCUIT DESCRIPTION

Input/Output timing chart 102



KRC-453 D/L/N

MECHANISM OPERATION DESCRIPTION

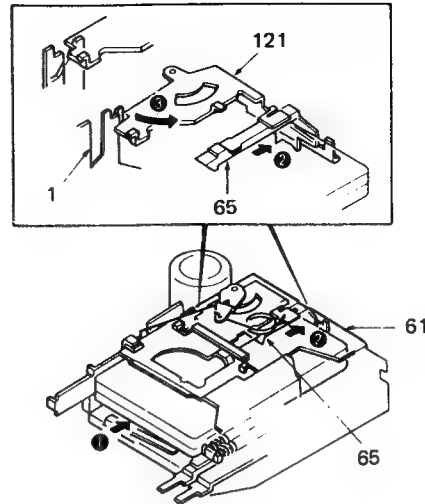


KRC-453 D/L/N

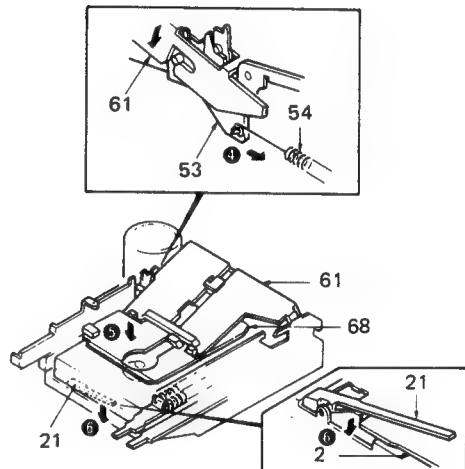
MECHANISM OPERATION DESCRIPTION

LOADING/PLAY

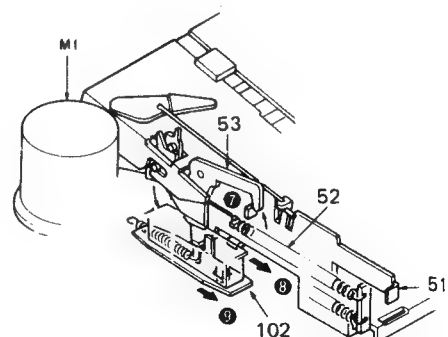
1. Insert a cassette tape (1).
2. The cassette guide (65) pushes to lever (reverse [121]) (2).
3. The lever (reverse [121]) turns in the direction of the arrow and releases the lock of the holder (action plate [61]) (3).



4. Through the lock release of the lever (reverse [121]), the arm (action [53]) is pulled by the tension spring (54), which turns the holder (action plate [61]). The holder (action plate) descends (4).
5. Through the descent of the holder (action plate [61]), the holder (cassette case [68]) also descends (5).
6. As the holder (cassette case [68]) descends, the cassette tape pushes the lever (lock plate [21]). The lever (lock plate [21]) then releases the lock of the lever assembly (head plate [2]) (6).



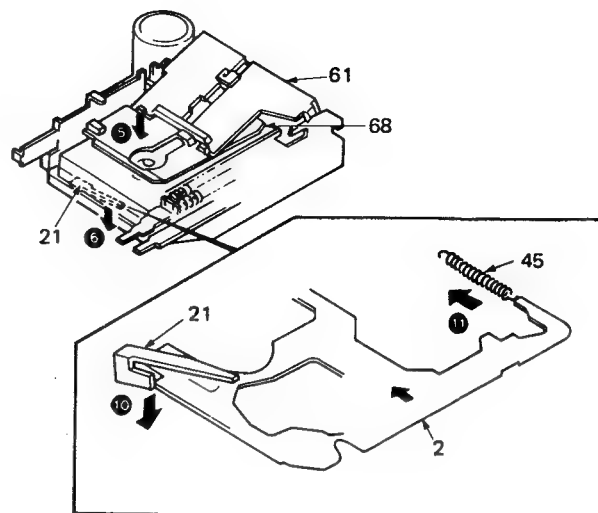
7. As the arm (action [53]) turns, the lock of the lever assembly (eject [51]) is released (7).
8. The lever assembly (eject [51]) is pulled by the tension spring (52) and moves forward (8).
9. Through the movement of the lever assembly (eject [51]), the lever (102) also moves forward and turns on the slide switch S1. As the slide switch S1 is turned on, electricity is supplied to the motor assembly (M1) (9).



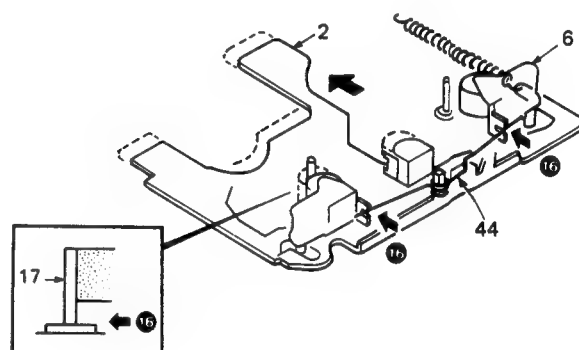
KRC-453 D/L/N

MECHANISM OPERATION DESCRIPTION

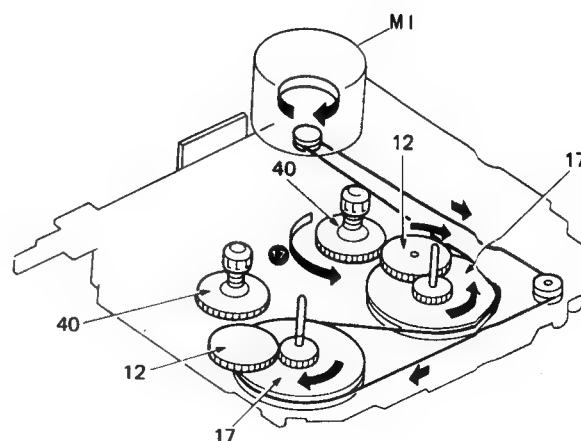
10. As the holder (cassette case [68]) descends, the cassette tape pushes the lever (lock plate [21]) then releases the lock of the lever assembly (head plate [2]) (10).
11. The lever assembly (head plate [2]) is pulled by the tension spring (45) and moves forward (11).



12. Through the forward movement of the lever assembly (head plate [2]), pinch roller assembly (6) make close contact with the shaft of the flywheel (17) through the formed wire spring (44) (12).



13. The rotation is transmitted from each gear (17-12) to the reel base (40) of the take-up side (17).

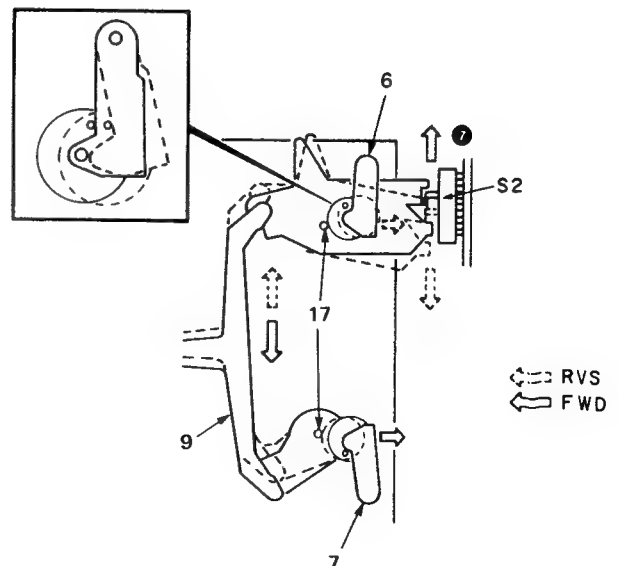
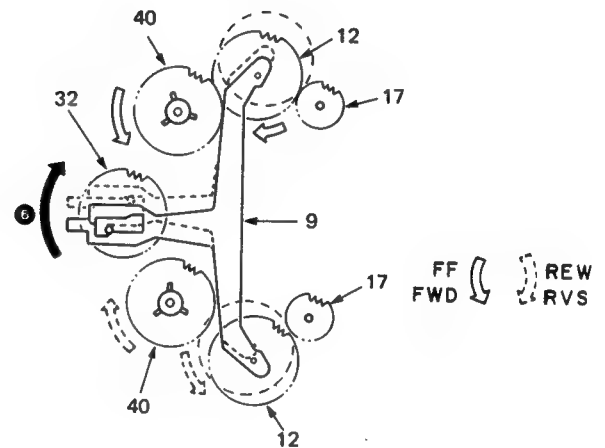
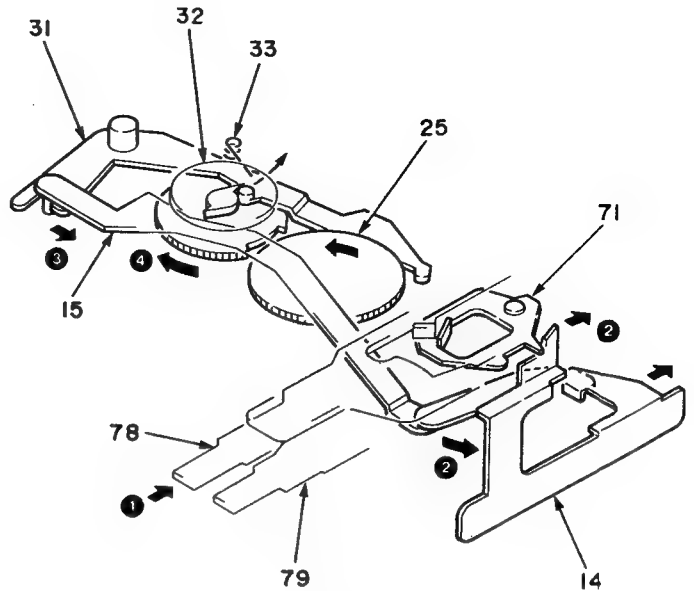


KRC-453 D/L/N

MECHANISM OPERATION DESCRIPTION

PROGRAM

1. Push the FF and REW levers simultaneously (①).
2. The arm assembly (15) moves toward the right (②).
3. The lever (31) is pulled (③), and the changeover gear (32) is unlocked.
4. The changeover gear is pushed by the torsion spring (33), and engaged with the cam gear (25) (④).
5. The changeover gear (32) is rotated by a half turn and locked with the lever (31) again.
6. The movement of the boss of the changeover gear (32) moves the changeover arm (9) (⑥).
7. When the changeover arm (9) moves, the drive direction of the reel base (40), head switch (S2) and pinch roller is switched between FWD and RVS (⑦).

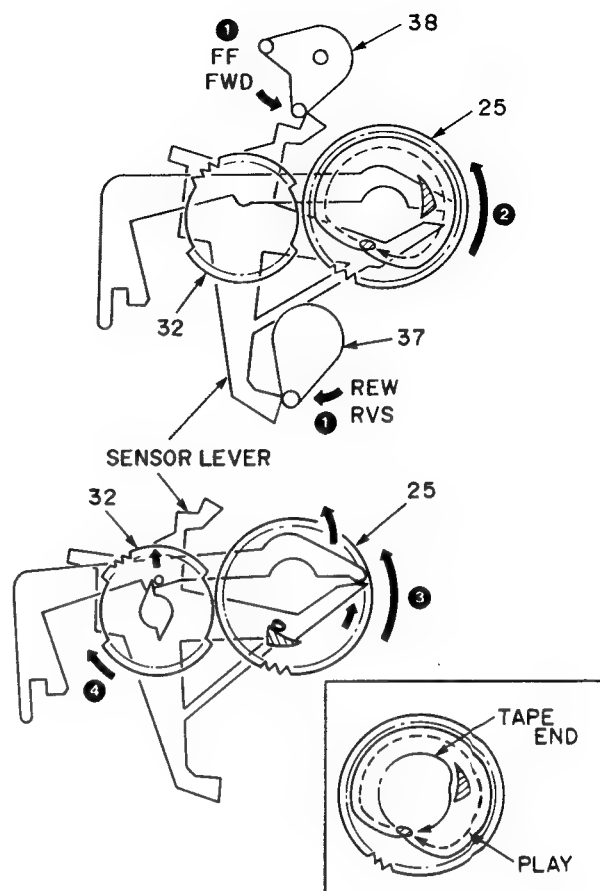


KRC-453 D/L/N

MECHANISM OPERATION DESCRIPTION

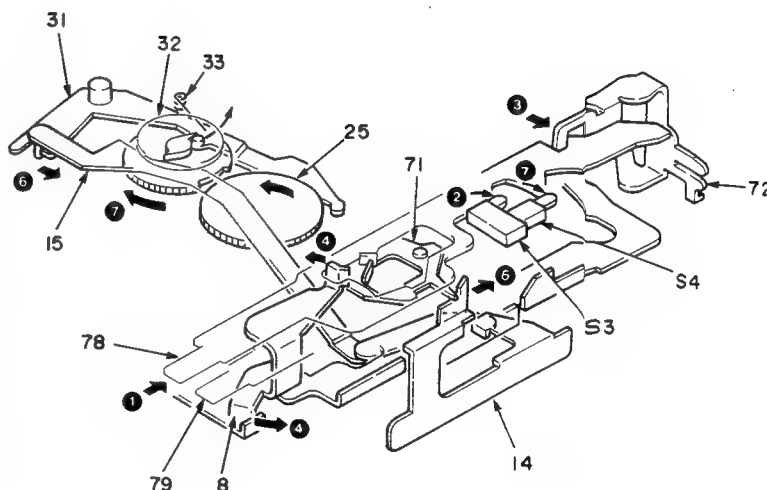
AUTO REVERSE

1. When the reel base (40) stops rotation at the end of tape, the arm (38) stops pushing the sensor lever (1).
2. The sensor lever is engaged with the cam projection of the cam gear (25) and carried until the intermediate point of the cam gear (2).
3. Then, the sensor lever is carried by the triangular boss of the cam gear (25) and pushes the lock lever (3).
4. When the lock lever is pushed, the changeover gear rotates and the program operation starts (4).



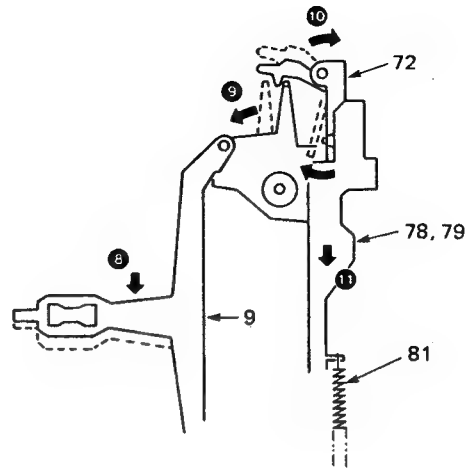
REW

1. Push the lever REW (78) (1).
2. Pushing the lever REW (78) closes the leaf switch (S3) and muting is applied (2).
3. The lever REW (78) is locked by the arm (72) (3).
4. By pushing the lever REW (78), the lever (8) is pushed in the direction of arrow (4).
5. Through being pushed, the lever (8) moves the lever assembly (head plate (2)) backward a little (5). Through the backward movement of the lever assembly, the playback head (HD1) and pinch roller (7) also moves backward a little.
6. This time, the lever REW (78) moves the arm assembly (15) and PROGRAM operation is engaged (6).
7. The rotation of the reel base (40) is high-speeded by the speed selector switch (S4) (7).



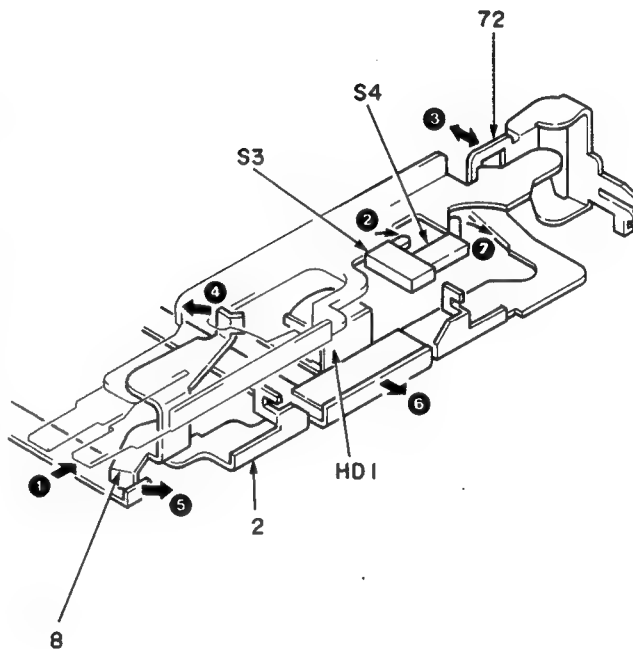
MECHANISM OPERATION DESCRIPTION

8. At the tape end during the operation of REW, the end sensor is activated, and the changeover arm (9) moves the arm (72) during the operation of PROGRAM (8) (9) (10). The lever REW (78) is released (11).
9. To release REW, slightly depress the lever FF (79).
10. By depressing the lever FF (79), the arm (72) moves, and the lever REW (78) returns by the tension spring (81) (11).



FF

1. Push the lever FF (79) (1).
2. Pushing the lever FF (79) closes the leaf switch (S3) and muting is applied (2).
3. The lever FF (79) is locked by the arm (72) (3).
4. By pushing the lever FF (79), the lever (8) is pushed in the direction of arrow (4).
5. Through being pushed, the lever (8) moves the lever assembly (head plate [2]) backward a little (5). The playback head (HD1) and pinch roller also moves backward a little.
6. The rotation of the reel base (40) is high-speeded by the speed selector switch (S4) (6).

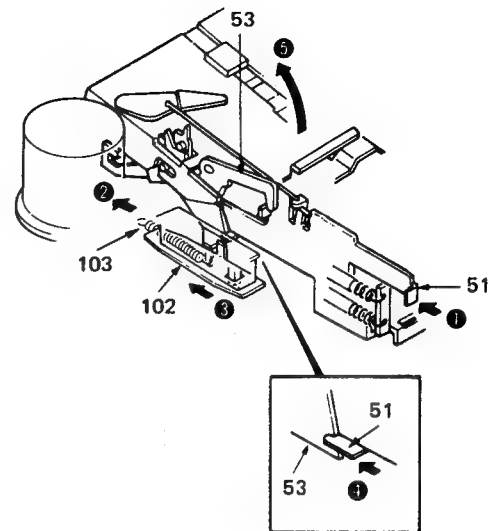


KRC-453 D/L/N

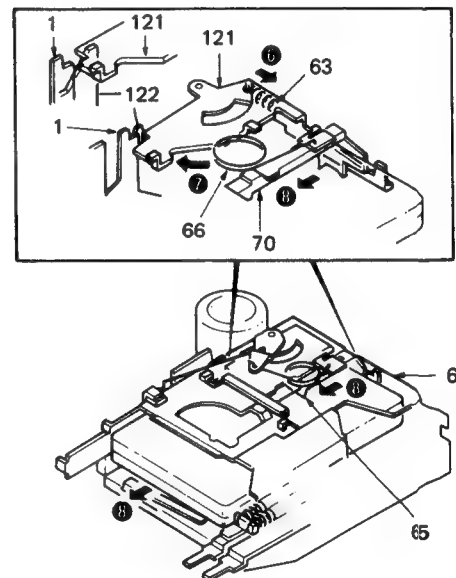
MECHANISM OPERATION DESCRIPTION

EJECT

1. Push the lever assembly (eject [51]) (①).
2. By pushing the lever assembly (eject [51]), the tension spring (103) pushes the lever (102) (②).
3. Though pushing the lever (102), the slide switch (S1) is turned off, and the lever assembly (head plate [2]) moves backward (③).
4. The lever assembly (eject [51]) pushes and turns the arm (action [53]) (④).
5. By turning, the arm (action [53]) pushes up the holder (action plate [61]) (⑤).



6. When the holder (action plate [61]) is pushed up, the lever (reverse [121]) is pulled by the tension spring (63) and turns (⑥).
7. In turning, the lever (reverse [121]) is put on the lever of the mechanism chassis (122) (⑦).
8. The cassette guide (65) is pushed forward by the torsion coil spring (66), and the cassette tape is ejected (⑧).



ADJUSTMENT

Set the controls and switches as follows.

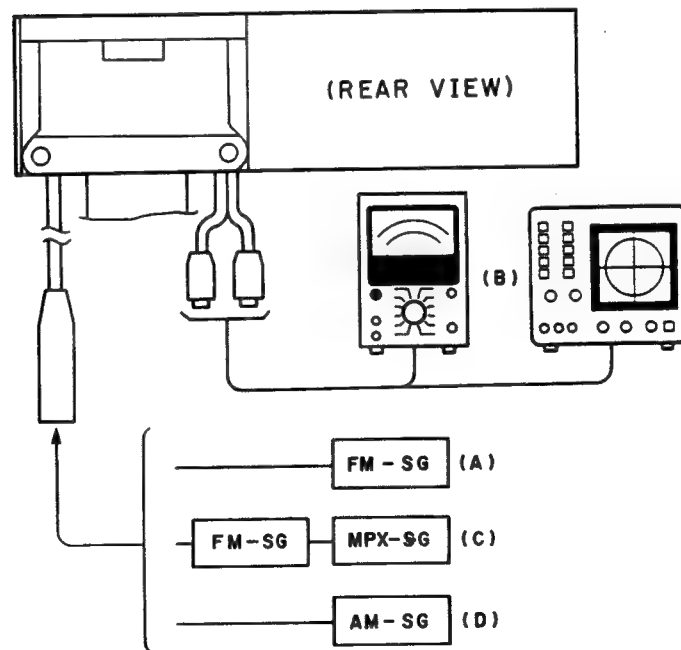
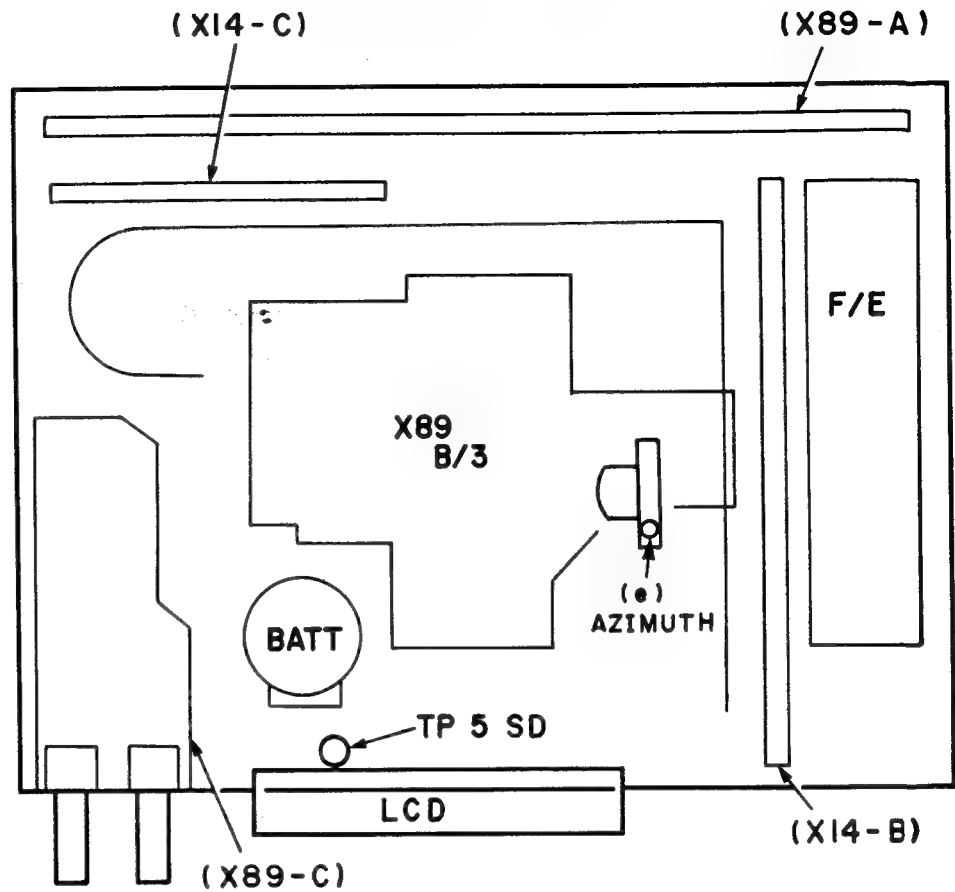
BALANCE :center position LOUD :OFF LOCAL :OFF
 FADER :center position T-ADV :OFF AUTO :OFF
 BASS :center position METAL :OFF
 TREBLE :center position DOLBY NR :OFF

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER(RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRI-MINATOR	(A) 98.1MHz 0 dev 60dBu(ANT input)	Connect the DC voltmeter between pins of TP1(X14 B/3)	FM 98.1MHz	T1 (X14 B/3)	0V	(a)
2	VCO	(A) 98.1MHz 0 dev 60dBu(ANT input)	Connect a frequency counter to TP2 (2) and GND	FM 98.1MHz Connect a R(180K Ω) between TP2(1) and GND	VR5 (X14 B/3)	19KHz	(b)
3	SEPA-RATION	(C) 98.1MHz 1kHz, ± 40 kHz dev Pilot: ± 7.5 kHz dev Selector: L or R 60dBu(ANT input)	(B)	FM 98.1MHz	VR6 (X14 B/3)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
4	ANRC	(C) 98.1MHz 1kHz, ± 40 kHz dev Pilot: ± 7.5 kHz dev Selector: L or R 35dBu(ANT input)	(B)	FM 98.1MHz Connect a lead wire between TP3 and GND	VR4 (X14 B/3)	Separation 10dB	
5	SEEK STOP LEVEL	(A) 98.1MHz 1kHz, ± 40 kHz dev 20dBu(ANT input)	Connect the DC voltmeter to TP5(X14 A/3)	FM SEEK: ON 98.1MHz	VR3 (X14 B/3)	Low \rightarrow High(Voltage) (Seek stop)	(c)
SDK SECTION (KRC-453D Only)							
6	DK LEVEL	(E) 98.1MHz 0 mod SK 5.33% DK 30% BK 60% 60dBu(ANT input)	Connect a AC voltmeter to TP6 (X14 A/3)	FM 98.1MHz SDK: OFF	L6 VR8 (X14 A/3)	Maximum	(d)
MW SECTION							
(1)	SEEK STOP LEVEL	(D) 999kHz 400Hz, 30% mod 35dBu(ANT input)	Connect the DC voltmeter to TP5(X14 A/3)	MW 999kHz	VR7 (X14 A/3)	Low \rightarrow High(Voltage) (Seek stop)	
CASSETTE DECK SECTION							
[1]	AZIMUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each L CH/R CH or FWD/RVS becomes maximum.	(e)

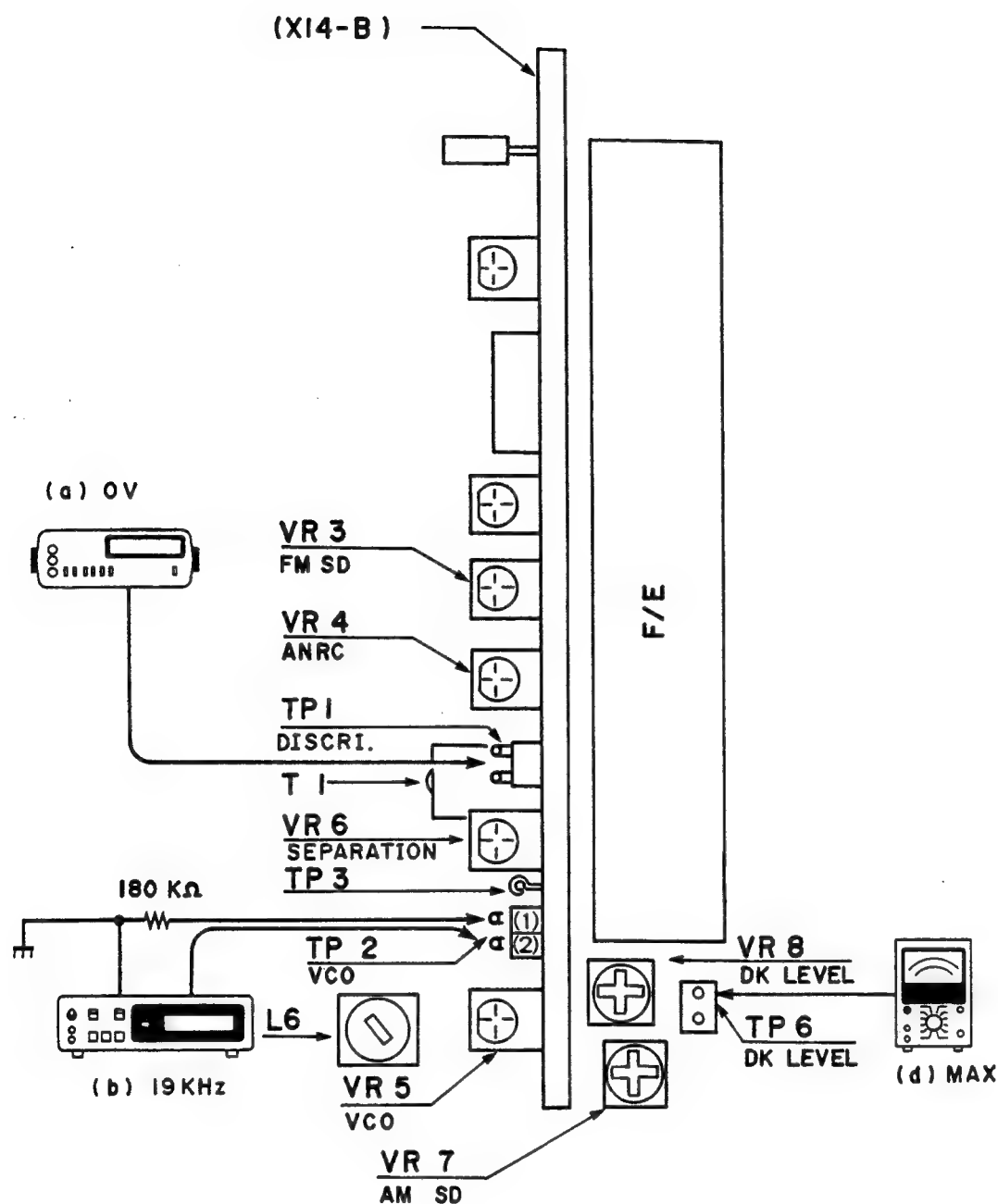
KRC-453D/L/N

KRC-453 D/L/N

ADJUSTMENT

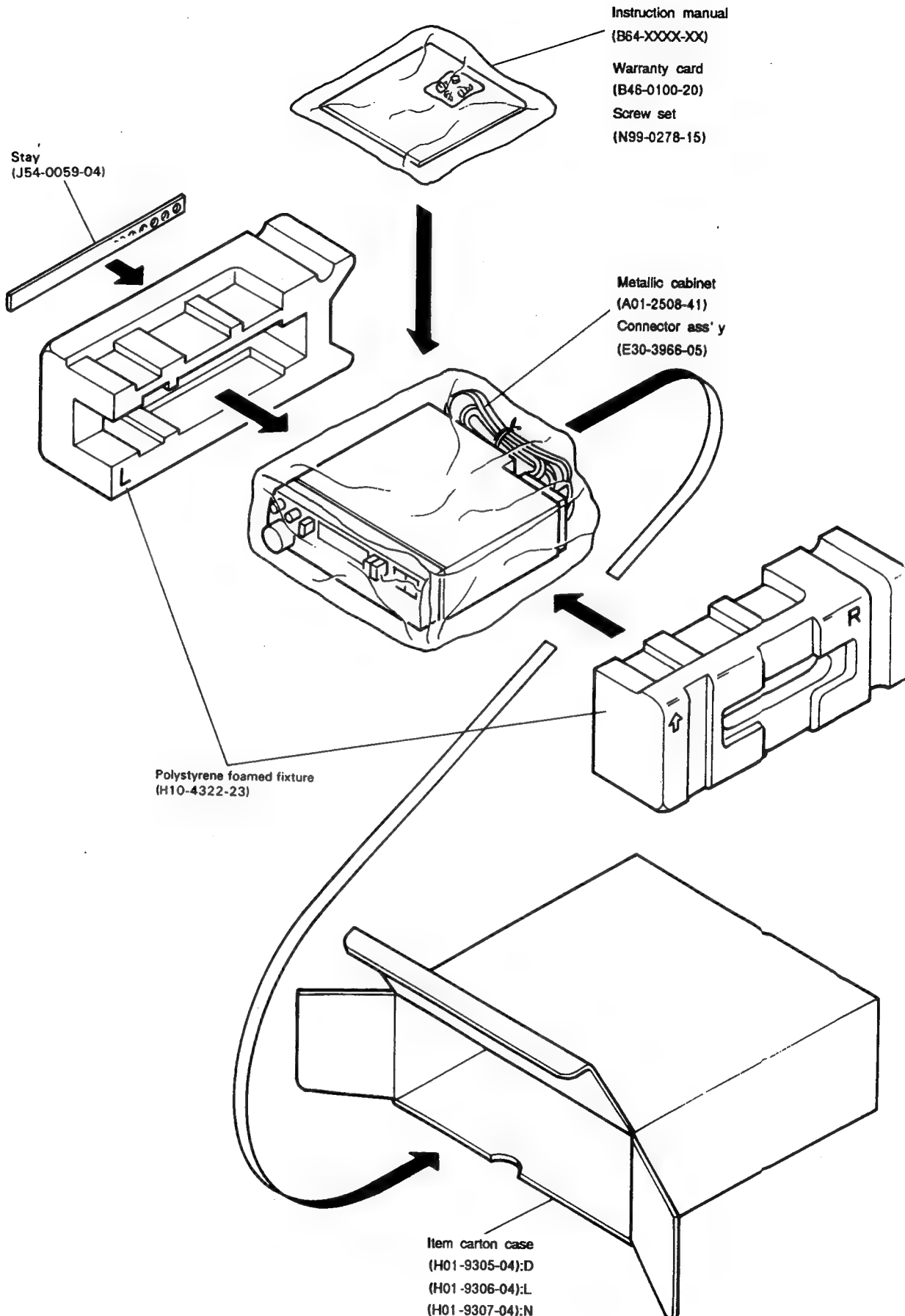


ADJUSTMENT



KRC-453 D/L/N

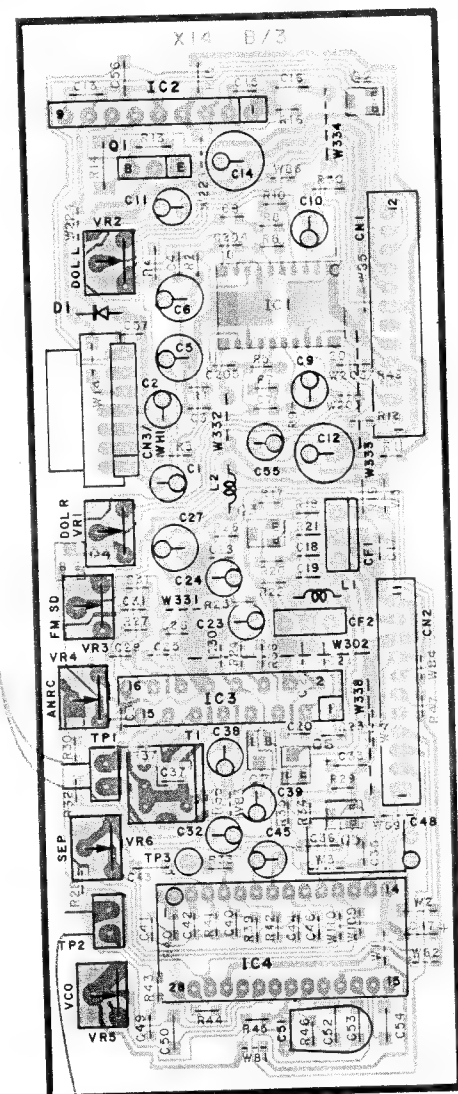
PACKING



PC BOARD (Foil side view)

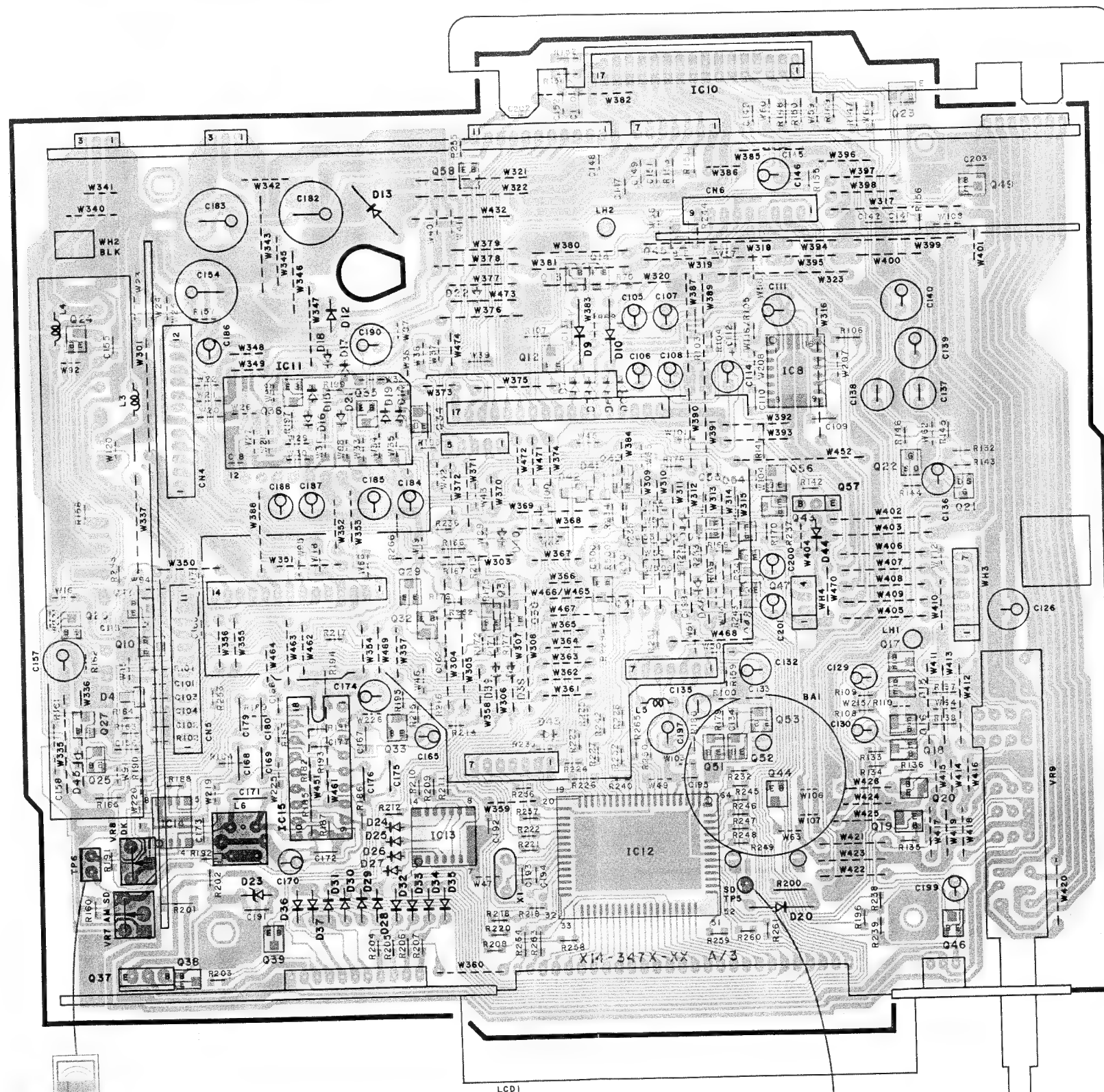
(a) OSCILLATOR

DC Voltmeter



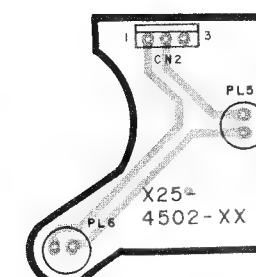
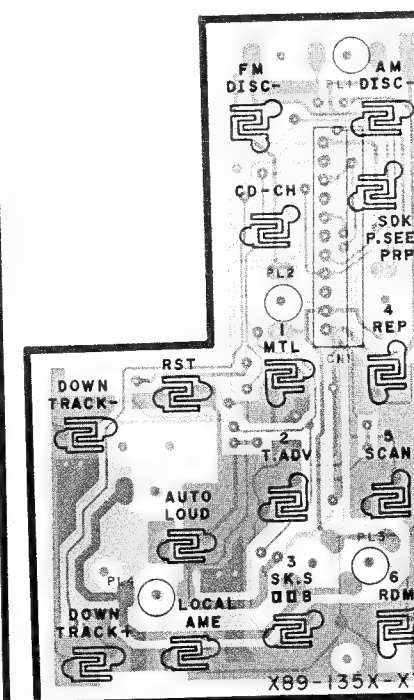
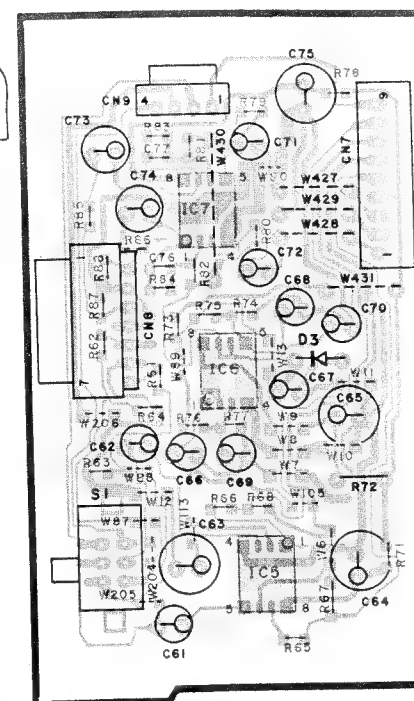
Frequency counter

(b) VCO: 19KHz



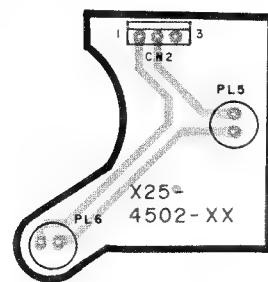
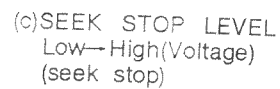
(d) DK LEVEL
Maximum

(c) SEEK STOP LEVEL
Low→High(Voltage)
(seek stop)



X14-3470-10

Ref.No.	Q	Address
4	4P	
5	5Q	
6	5Q	
7	5Q	
10	4R	
11	4R	
12	3U	
13	2U	
14	2U	
17	4V	
18	5V	
19	5V	
20	5V	
21	4W	
22	3V	
23	1V	
24	3R	
25	5R	
26	4R	
27	5R	
29	4T	
30	4T	
31	4T	
32	4T	
33	5T	
34	3T	
35	3T	
36	3S	
37	6R	
38	6S	
39	6S	
42	3U	
43	4V	
44	5V	
46	6W	
47	4V	
49	2W	
51	5U	
52	5V	
53	5V	
54	4V	
55	4U	
56	3V	
57	4V	
58	2T	
1	3Q	
2	2P	
3	4Q	
4	4Q	
5	3X	
6	2X	
7	1X	
8	3V	
11	3S	
12	5U	
13	5T	
14	5S	
15	5S	



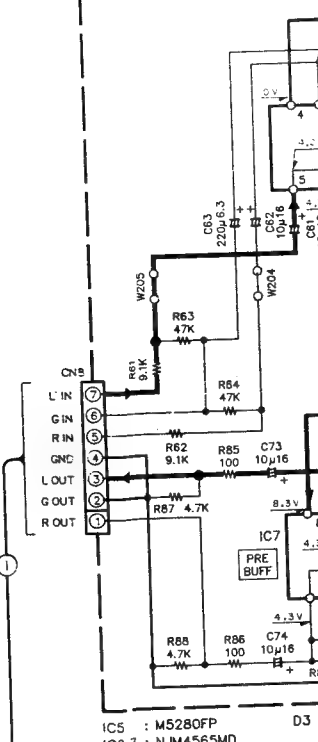
IC10 : TA215H
 IC11 : BA3906-VI
 IC12 : *
 IC13 : TC4081BF
 IC14 : NJM4558M
 IC15 : TDA1579T

Q10~14, 23~25, 29, 33, 35, 42~44, 49
 Q15~22 : DTC144EK
 Q21, 24 : 2SD1757K
 Q26, 27, 36, 39, 55 : DTA144EK
 Q30~32, 38, 41, 51~54, 58 : 2SC2412K
 Q34 : DTA114EK
 Q37 : 2SB1370
 Q46~48 : 2SA1037K
 Q56 : DTC114EK
 Q57 : 2SA1428 (O, Y)

Q4 : 0AP202K
 Q5~6 : 14~17, 19, 21~27
 Q7~10 : 38~41, 43, 45, 46
 Q9, 11 : MA110
 Q12, 44 : 1S1555
 Q13 : ERA15-C1
 Q14 : PM102
 Q15 : MA806B-M
 Q16 : SD184
 Q17 : H7S11B2L
 Q18 : 1SS176
 Q19 : DAN202K

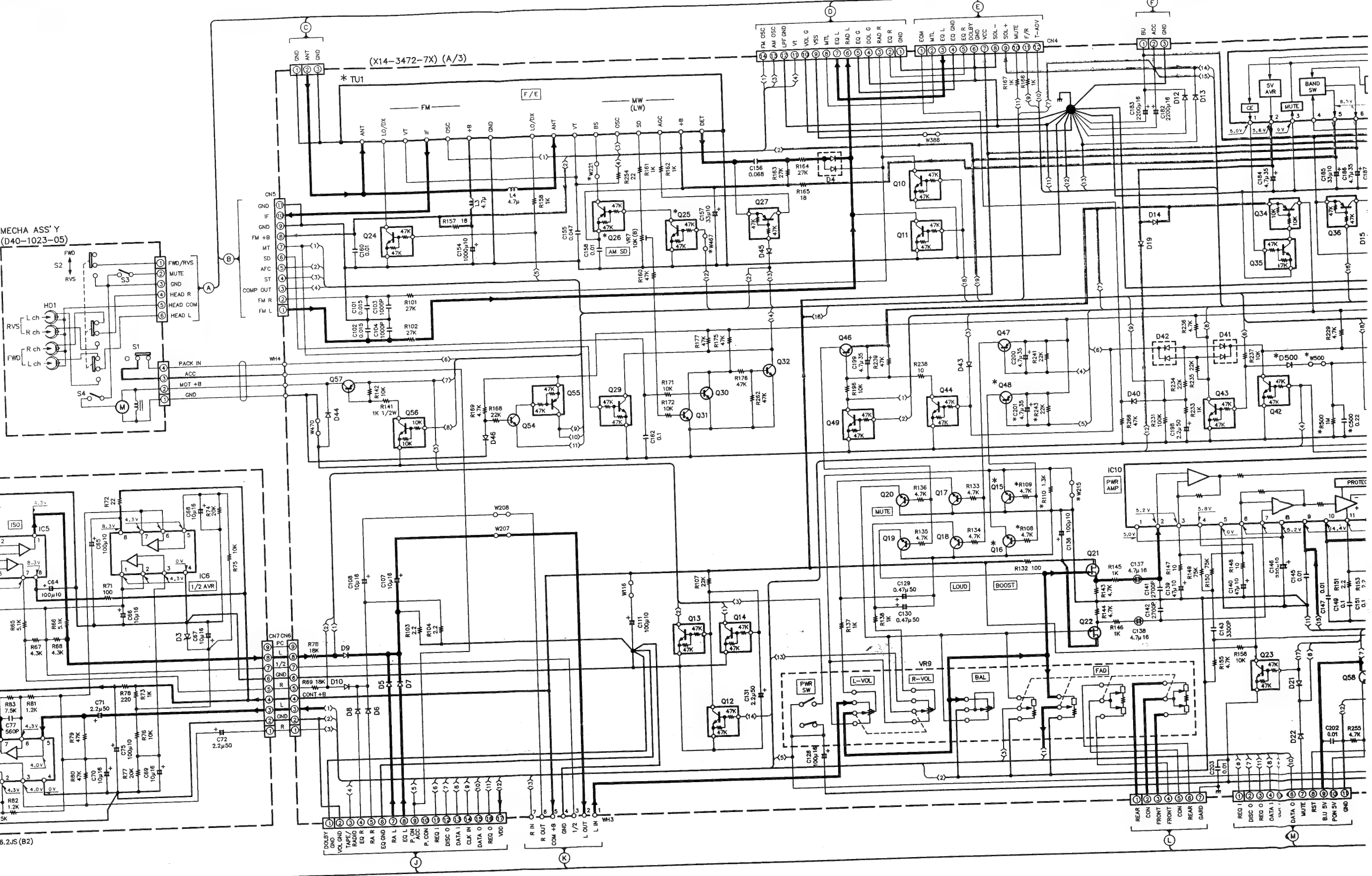
D1~4 : 1N4148
 D5~8 : 1N4148
 D9 : 1N4148
 D10 : 1N4148
 D11 : 1N4148
 D12 : 1N4148
 D13 : 1N4148
 D14 : 1N4148
 D15 : 1N4148
 D16 : 1N4148
 D17 : 1N4148
 D18 : 1N4148
 D19 : 1N4148
 D20 : 1N4148
 D21 : 1N4148
 D22 : 1N4148
 D23 : 1N4148
 D24 : 1N4148
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 D93 : 1N4148
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 D97 : 1N4148
 D98 : 1N4148
 D99 : 1N4148
 D100 : 1N4148

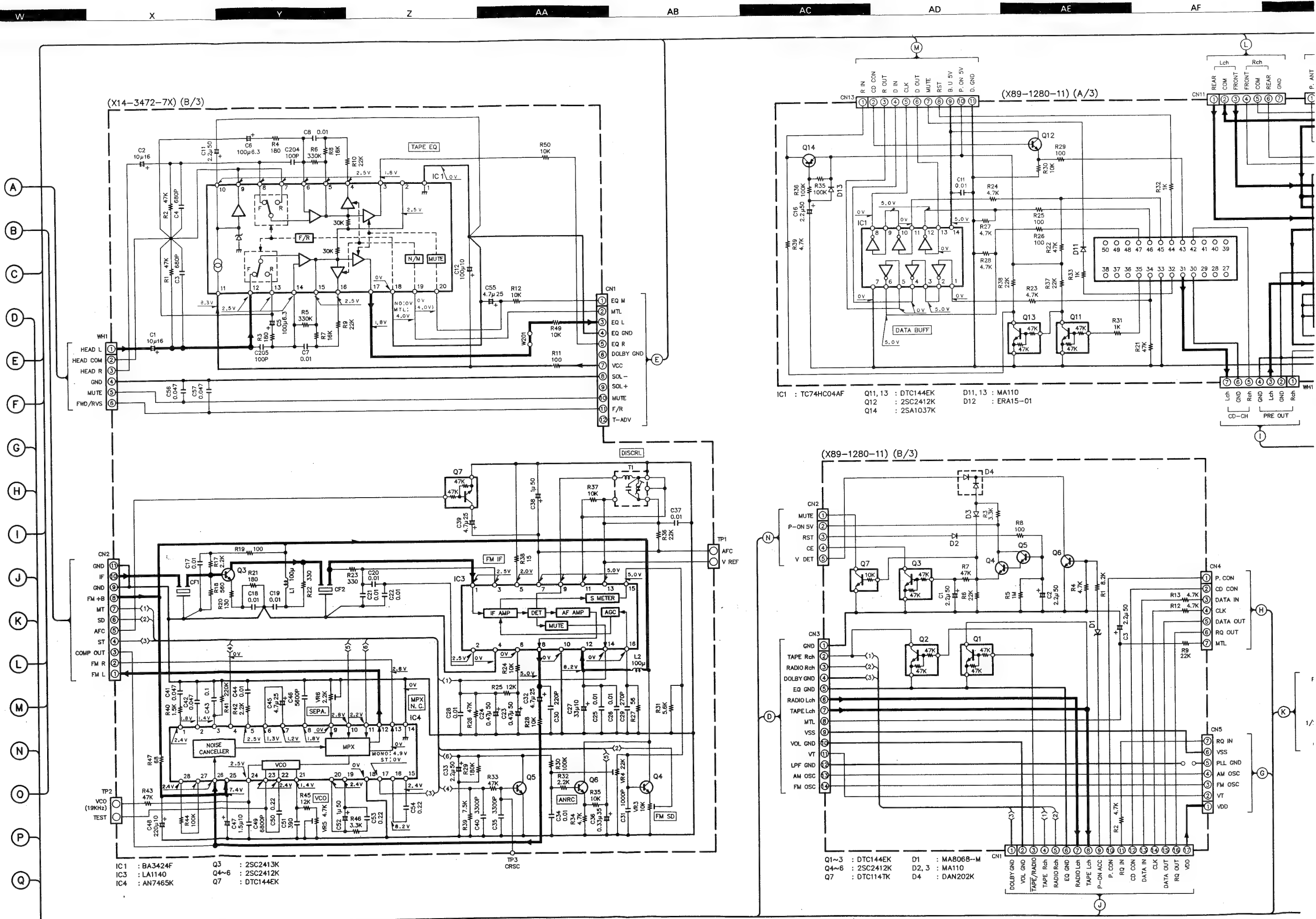
(X14-3472-7X) (C/3)

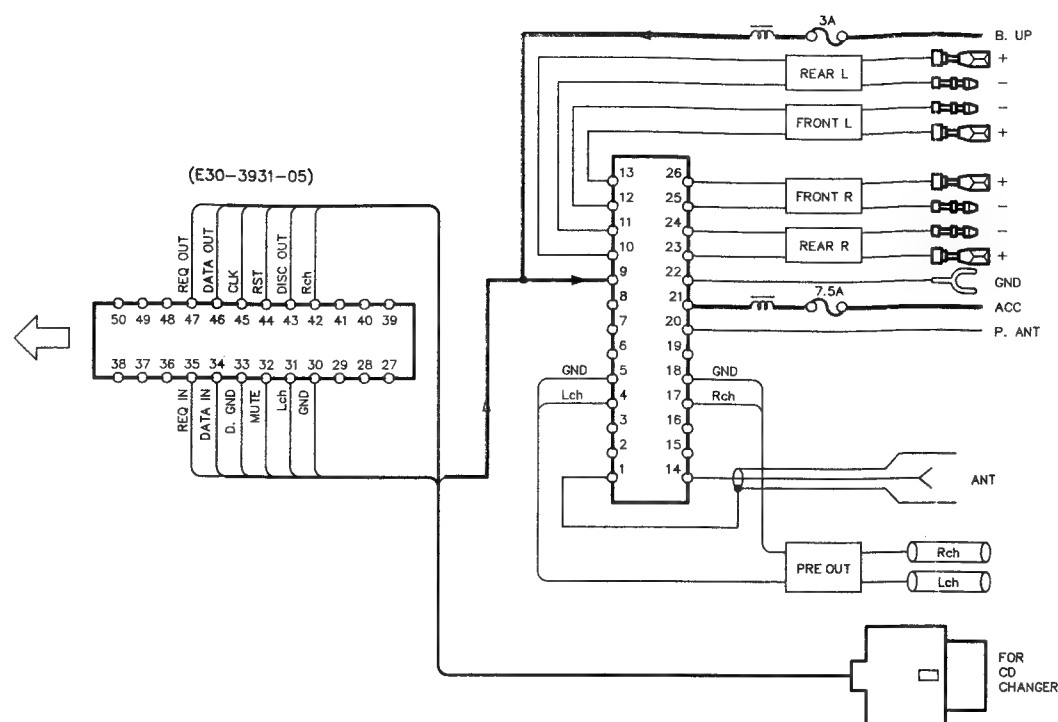
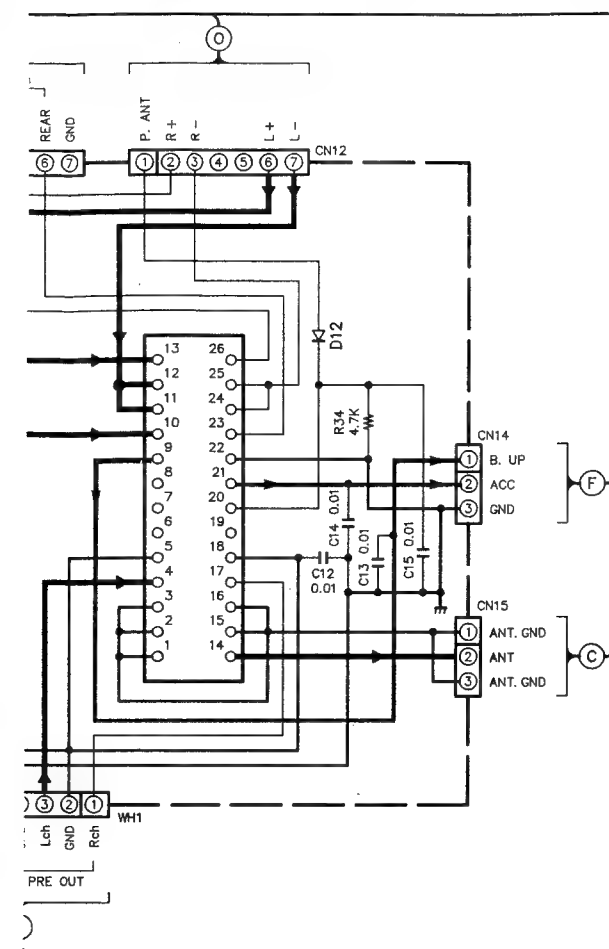


IC5 : M5280FP
 IC6, 7 : NJM4558MD

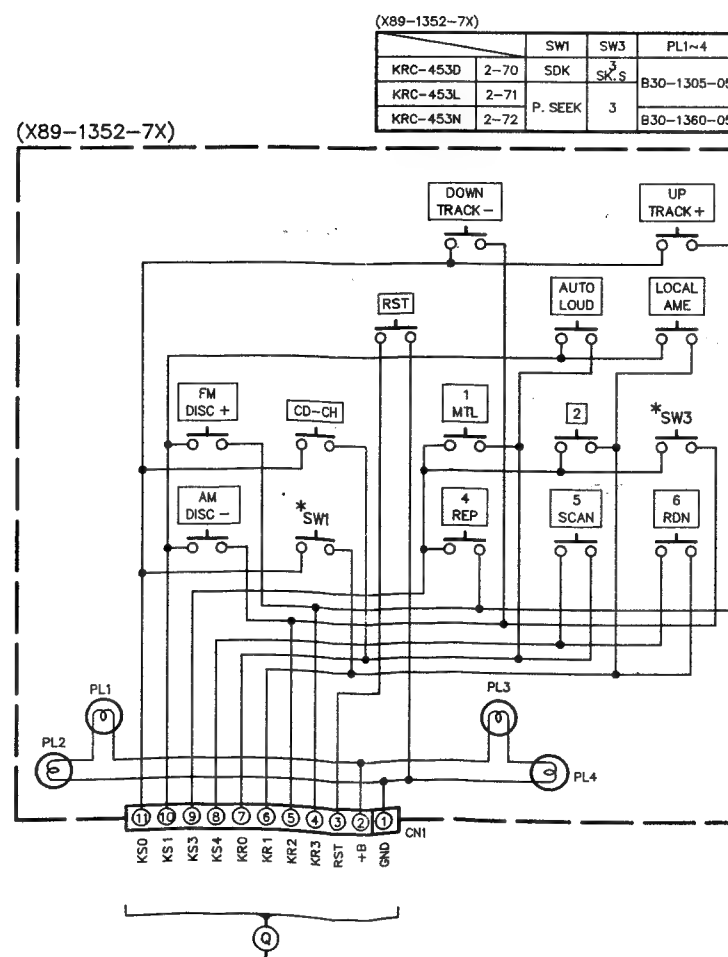
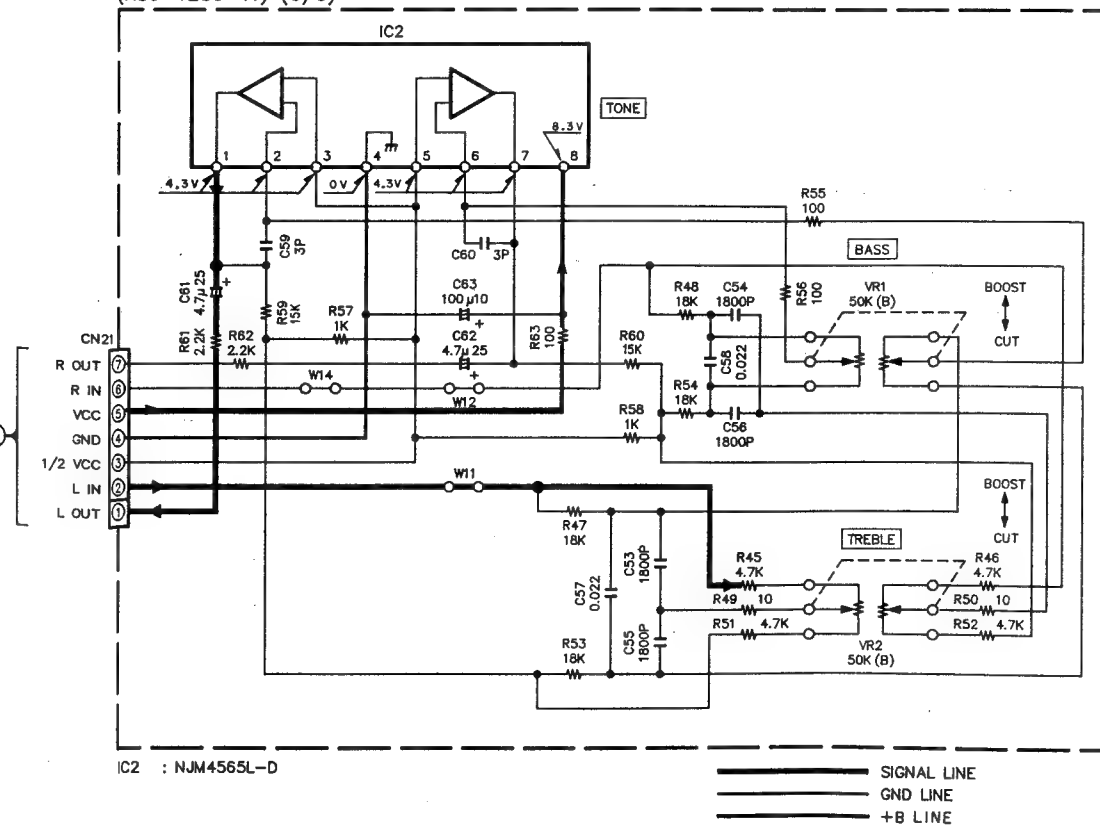
DTA114EK DTC114TK 2SC2412K
 DTA144EK DTC144EK 2SD1757K
 DTC114EK 2SA1037K







(X89-1280-11) (C/3)



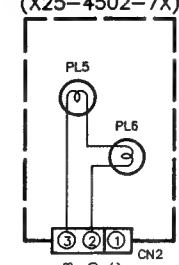
(X89-1352-7X)

	SW1	SW3	PL1~4
KRC-453D	2-70	SDK	3 SKS
KRC-453L	2-71	P. SEEK	3
KRC-453N	2-72		

(X25-4502-7X)

KRC-453D/L	2-70
KRC-453N	2-71

(X25-4502-7X)



DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

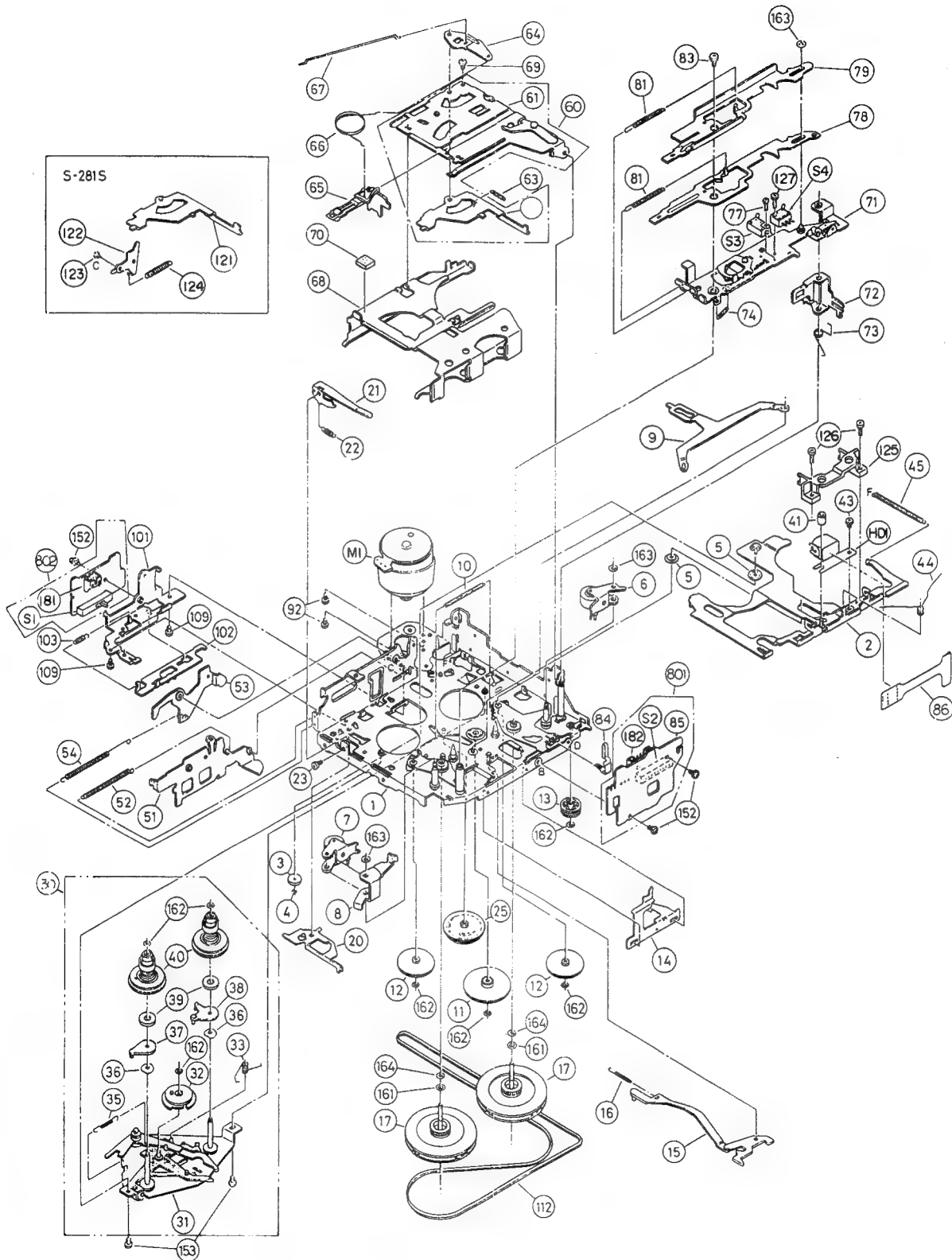
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). **⚠** Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KRC-453 D/L/N

KENWOOD

KRC-453 D/L/N

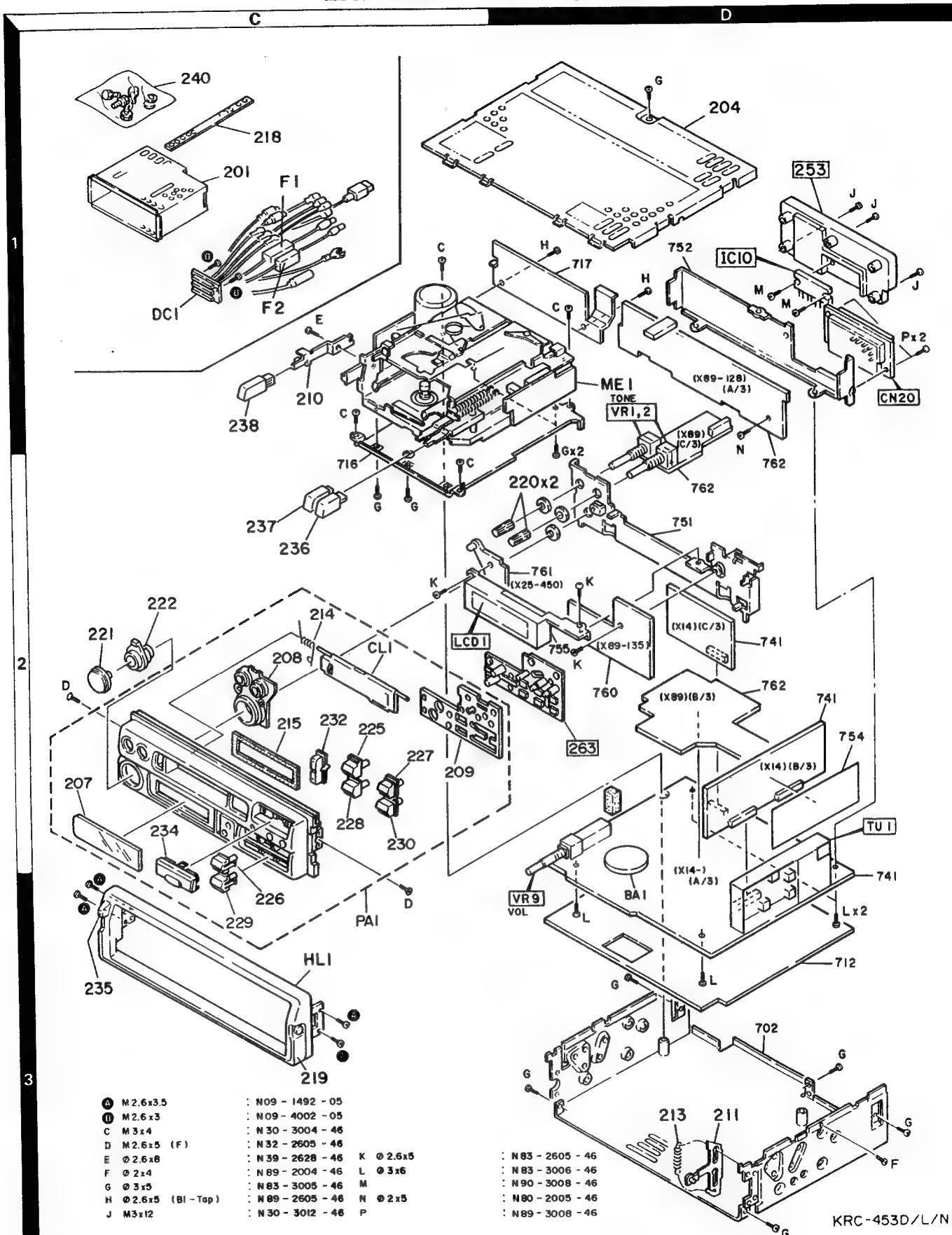
EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

KRC-453 D/L/N

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied

KRC-453 D/L/N

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KRC-453-D/L/N						
201	1C	*	A01-2508-41	METALLIC CABINET		
204	1C, 1D	*	A52-0625-22	TOP COVER		
CL1	2C	*	A53-1534-03	CASSETTE LID		
PA1	2C	*	A20-7698-02	PANEL ASSY	D	
PA1	2C	*	A20-7700-02	PANEL ASSY	L	
PA1	2C	*	A20-7770-02	PANEL ASSY	N	
207	2C	*	B10-1421-03	FRONT GLASS	D	
207	2C	*	B10-1422-03	FRONT GLASS	L	
207	2C	*	B10-1466-03	FRONT GLASS	N	
208	2C	*	B19-0883-02	LIGHTING BOARD		
209	2C	*	B19-0884-02	LIGHTING BOARD		
-			B46-0100-20	WARRANTY CARD		
-			B46-0182-04	ID CARD	D	
-		*	B64-0123-00	INSTRUCTION MANUAL (F,D)	D	
-		*	B64-0124-00	INSTRUCTION MANUAL (E,F)	L,N	
-		*	B64-0131-00	INSTRUCTION MANUAL (H,I,SP)	L,N	
HL1	3C		B07-2014-42	ESCUTCHEON ASSY		
210	1C		D10-2522-14	LEVER		
ME1	1C, 1D		D40-1023-05	CASSETTE MECHANISM ASSY		
DC1	1C		E30-3966-05	CONNECTOR ASSY		
F1	1C		F05-7521-05	FUSE (7.5A, ACC)		
F2	1C		F06-3026-05	FUSE (3A, B.U.)		
213	3D		G01-2040-04	EXTENSION SPRING		
215	2C	*	G11-1510-04	CUSHION		
-		*	H01-9305-04	ITEM CARTON CASE	D	
-		*	H01-9306-04	ITEM CARTON CASE	L	
-		*	H01-9307-04	ITEM CARTON CASE	N	
-		*	H03-3362-04	OUTER CARTON CASE	D	
-		*	H03-3363-04	OUTER CARTON CASE	L	
-		*	H03-3364-04	OUTER CARTON CASE	N	
-			H10-4322-23	POLYSTYRENE FOAMED FIXTURE		
-			H25-0329-04	PROTECTION BAG (280X450X0.03)		
-			H25-0336-04	PROTECTION BAG (170X250X0.03)		
218	1C		J54-0059-04	STAY		
219	3C		K01-0601-03	HANDLE		
220	2D	*	K23-1011-04	KNOB (TONE)		
221	2C	*	K23-1012-03	KNOB (VOL)		
222	2C	*	K23-1013-03	KNOB (FAD)		
225	2C	*	K24-0907-03	KNOB (P1)		
226	3C	*	K24-0908-03	KNOB (P2)		
227	2C	*	K24-0909-03	KNOB (P3)		
228	2C	*	K24-0910-03	KNOB (P4)		
229	3C	*	K24-0911-03	KNOB (P5)		
230	2C	*	K24-0912-03	KNOB (P6)		
232	2C	*	K25-0591-03	KNOB (AM,FM)	D, N	
234	3C	*	K25-0592-03	KNOB (TUNE)		
235	3C	*	K27-3510-04	KNOB (LEVER)		
236	2C	*	K27-3523-04	KNOB (BUTTON)(FF)		
237	2C	*	K27-3524-04	KNOB (BUTTON)(REW)		

D:KRC-453D

L:KRC-453L

N:KRC-453N

△ indicates safety critical components.

KRC-453 D/L/N

PARTS LIST

※ New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
238	2C	*	K27-3525-04	KNOB (BUTTON)(EJECT)		
240	1C		N99-0278-15	SCREW SET		
-			N19-2002-05	CORRUGATED WASHER		
-			N32-2008-45	FLAT HEAD MACHIN SCREW		
A	3A		N09-1492-05	MACHINE SCREW (2.6X3.5)		
B	1C		N09-4002-05	STEPPED SCREW (M2.6X3)		
C	1C, 1D		N30-3004-46	PAN HEAD MACHIN SCREW		
D	2C		N32-2605-46	FLAT HEAD MACHIN SCREW		
E	1C		N39-2628-46	PAN HEAD MACHIN SCREW		
F	2C		N89-2004-46	BINDING HEAD TAPTITE SCREW		
G	1D, 3D		N83-3005-46	PAN HEAD TAPTITE SCREW		
H	1D		N89-2605-46	BINDING HEAD TAPTITE SCREW		
BA1	3D		W09-0726-05	BATTERY		
SYNTHESIZER UNIT (X14-347X-XX)						
LCD1	2D	*	B38-0544-05	LIQUID CRYSTAL		
C1 ,2			CE04NW1H010M	ELECTOR 1.0UF 50WV		
C3 ,4			CK73FB1H681K	CHIP C 680PF K		
C5 ,6			CE04NW0J101M	ELECTRO 100UF 6.3WV		
C7 ,8			CK73FB1H103K	CHIP C 0.010UF K		
C11			CE04NW1H2R2M	ELECTRO 2.2UF 50WV		
C12			CE04NW1A101M	ELECTRO 100UF 10WV		
C17 -22			CK73FB1H103K	CHIP C 0.010UF K		
C23 ,24			CE04NW1HR47M	ELECTRO 0.47UF 50WV		
C25 ,26			CK73FB1H103K	CHIP C 0.010UF K		
C27			CE04NW1A330M	ELECTRO 33UF 10WV		
C28			CK73FB1H103K	CHIP C 0.010UF K		
C29			CK73FB1H271K	CHIP C 270PF K		
C30			CK73FB1H221K	CHIP C 220PF K		
C31			CK73FB1H102K	CHIP C 1000PF K		
C32			CE04NW1E4R7M	ELECTRO 4.7UF 25WV		
C33			C92-0005-05	ELECTRO 2.2UF 6.3WV		
C34			CK73FB1H103K	CHIP C 0.010UF K		
C35			CK73FB1H332K	CHIP C 3300PF K		
C36			C92-0502-05	ELECTRO 0.33UF 35WV		
C37			CK73FB1H103K	CHIP C 0.010UF K		
C38			CE04NW1H010M	ELECTOR 1.0UF 50WV		
C39			CE04NW1E4R7M	ELECTRO 4.7UF 25WV		
C40			CK73FB1H332K	CHIP C 3300PF K		
C41 ,42			CK73FB1E473KTA	CHIP C 0.047UF K		
C43			CK73EB1E104K	CHIP C 0.10UF K		
C44			CK73FB1H103K	CHIP C 0.010UF K		
C45			CE04NW1E4R7M	ELECTRO 4.7UF 25WV		
C46			CK73FB1H562K	CHIP C 5600PF K		
C47			C92-0501-05	CHIP-TAN 1.5UF 6.3WV		
C48			CE04DW1A221M	ELECTRO 220UF 10WV		
C49			CK73FB1H682K	CHIP C 6800PF K		
C50			C93-0025-05	CERAMIC 0.22UF K		
C51			CQ92P2A391J	MYLAR 390PF J		
C52			CK73EB1E104K	CHIP C 0.10UF K		
C53 ,54			C93-0025-05	CERAMIC 0.22UF K		
C55			CE04NW1E4R7M	ELECTRO 4.7UF 25WV		
C56			CK73EB1H473K	CHIP C 0.047UF K		

D:KRC-453D

L:KRC-453L

N:KRC-453N

⚠ indicates safety critical components.

PARTS LIST

× New Parts

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Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C57			CK73FB1E473KTA	CHIP C 0.047UF K		
C61 ,62			C90-2554-05	ELECTRØ 10UF 16WV		
C63			C90-2546-05	ELECTRØ 220UF 6.3WV		
C64 ,65			C90-2550-05	ELECTRØ 100UF 10WV		
C66 -70			C90-2554-05	ELECTRØ 10UF 16WV		
C71 ,72			C90-2557-05	ELECTRØ 2.2UF 50WV		
C73 ,74			C90-2536-05	ELECTRØ 10UF 16WV		
C75			C90-2550-05	ELECTRØ 100UF 10WV		
C76 ,77			CK73FB1H561K	CHIP C 560PF K		
C101,102			CK73FB1H153K	CHIP C 0.015UF K		
C103,104			CK73FB1H102K	CHIP C 1000PF K		
C107,108			C90-2599-05	ELECTRØ 4.7UF 25WV		
C111			CE04CW1A101M	ELECTRØ 100UF 10WV		
C113			C92-0005-05	ELECTRØ 2.2UF 6.3WV		
C126			CE04DW1C101M	ELECTRØ 100UF 16WV		
C129,130			C90-2606-05	ELECTRØ 0.47UF 50WV		
C131			C92-0005-05	ELECTRØ 2.2UF 6.3WV		
C132			CE04CW1A101M	ELECTRØ 100UF 10WV		
C133,134			CK73FB1H103K	CHIP C 0.010UF K		
C135			C90-2525-05	NP-ELECT 2.2UF 35WV		
C136			CE04CW1A101M	ELECTRØ 100UF 10WV		
C137,138			C90-2524-05	NP-ELECT 4.7UF 16WV		
C139,140			CE04CW1A470M	ELECTRØ 47UF 10WV		
C141,142			CK73FB1H272K	CHIP C 2700PF K		
C143			CK73FB1H332K	CHIP C 3300PF K		
C145			CK73EB1H103K	CHIP C 0.01UF K		
C146			CE04DW1A221M	ELECTRØ 220UF 10WV		
C147,148			CK73FB1H103K	CHIP C 0.010UF K		
C149-152			CK73EB1E104K	CHIP C 0.10UF K		
C154			CE04DW1A102M	ELECTRØ 1000UF 10WV		
C155			CK73FB1E473KTA	CHIP C 0.047UF K		
C156			CK73EB1E683K	CHIP C 0.068UF K		
C157			CE04CW1A330M	ELECTRØ 33UF 10WV		
C158			CK73FB1H103K	CHIP C 0.010UF K		
C160			CK73FB1H103K	CHIP C 0.010UF K		
C162			CK73EB1E104K	CHIP C 0.10UF K		
C165			CE04CW0J220M	ELECTRØ 22UF 6.3WV	D	
C166			CC73FSL1H560J	CHIP C 56PF J	D	
C167			CK73DB1H154K	CHIP C 0.15UF K	D	
C168,169			C91-2006-05	ELECTRØ 0.068UF 50WV	D	
C170			CE04CW1V4R7M	ELECTRØ 4.7UF 35WV	D	
C171			CQ93AP2A332J	POLYPRØ 3300PF J	D	
C172			CK73EB1E104K	CHIP C 0.10UF K	D	
C173			CK73EB1H103K	CHIP C 0.01UF K	D	
C174			CE04CW1A330M	ELECTRØ 33UF 10WV	D	
C175,176			C91-2006-05	ELECTRØ 0.068UF 50WV	D	
C177			CK73FB1H103K	CHIP C 0.010UF K	D	
C179,180			C91-2006-05	ELECTRØ 0.068UF 50WV	D	
C182,183			C90-2537-05	ELECTRØ 2200UF 16WV		
C184			CE04CW1V4R7M	ELECTRØ 4.7UF 35WV		
C185			CE04CW1A330M	ELECTRØ 33UF 10WV		
C186-188			CE04CW1V4R7M	ELECTRØ 4.7UF 35WV		
C189			CK73FB1H103K	CHIP C 0.010UF K		
C190			CE04CW1A101M	ELECTRØ 100UF 10WV		
C191			CK73EB1H473K	CHIP C 0.047UF K		

D:KRC-453D

L:KRC-453L

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KRC-453 D/L/N

PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C192 C193, 194 C195 C197 C198			CK73FB1H103K CC73FCH1H220J CK73FB1H103K C90-2579-05 C92-0005-05	CHIP C 0.010UF K CHIP C 22PF J CHIP C 0.010UF K ELECTRO 100UF 10WV ELECTRO 2.2UF 6.3WV		
C199 C200 C200, 201 C202 C203			CE04NW1H2R2M CE04CW1V4R7M CE04CW1V4R7M CK73EB1H103K CK73FB1H103K	ELECTRO 2.2UF 50WV ELECTRO 4.7UF 35WV ELECTRO 4.7UF 35WV CHIP C 0.01UF K CHIP C 0.010UF K	L, N D	
C204, 205 C500			CC73FCH1H101J C93-0025-05	CHIP C 100PF J CERAMIC 0.22UF K	D	
253	1D	*	F01-1383-03	HEAT SINK		
LH1			J19-4316-05	HOLDER		
CF1 ,2 L1 ,2 L3 ,4 L5 L6			L72-0524-05 L40-1011-17 L40-4791-17 L40-1011-17 L39-0156-05	CERAMIC FILTER SMALL FIXED INDUCTOR SMALL FIXED INDUCTOR(4.7UH,K) SMALL FIXED INDUCTOR TRAP COIL	D	
T1 X1			L30-0462-15 L77-1163-05	FM IFT CRYSTAL RESONATOR		
J K L M P	1D 1D 1D, 3D 1D		N30-3012-46 N83-2605-46 N83-3006-46 N90-3008-46 N89-3008-46	PAN HEAD MACHIN SCREW PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW TP HEAD MACHINE SCREW BINDING HEAD TAPTITE SCREW		
R1 ,2 R3 ,4 R5 ,6 R7 ,8 R9 ,10			RK73FB2A683J RK73EB2B181J RK73FB2A334J RK73FB2A163J RK73FB2A223J	CHIP R 68K J 1/10W CHIP R 180 J 1/8W CHIP R 330K J 1/10W CHIP R 16K J 1/10W CHIP R 22K J 1/10W		
R11 R12 R17 R18 R19			RK73FB2A220J RK73FB2A103J RK73FB2A222J RK73FB2A561J RK73EB2B101J	CHIP R 22 J 1/10W CHIP R 10K J 1/10W CHIP R 2.2K J 1/10W CHIP R 560 J 1/10W CHIP R 100 J 1/8W		
R20 R21 R22 ,23 R24 R25			RK73FB2A131J RK73FB2A181J RK73FB2A331J RK73FB2A103J RK73FB2A123J	CHIP R 130 J 1/10W CHIP R 180 J 1/10W CHIP R 330 J 1/10W CHIP R 10K J 1/10W CHIP R 12K J 1/10W		
R26 R27 R28 R29 R30			RK73FB2A473J RK73FB2A563J RK73FB2A100J RK73FB2A184J RK73FB2A104J	CHIP R 47K J 1/10W CHIP R 56K J 1/10W CHIP R 10 J 1/10W CHIP R 180K J 1/10W CHIP R 100K J 1/10W		
R31 R32 R33 R34 R35			RK73FB2A562J RK73FB2A222J RK73FB2A473J RK73FB2A472J RK73FB2A103J	CHIP R 5.6K J 1/10W CHIP R 2.2K J 1/10W CHIP R 47K J 1/10W CHIP R 4.7K J 1/10W CHIP R 10K J 1/10W		
R36			RK73FB2A223J	CHIP R 22K J 1/10W		

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R37			RK73FB2A103J	CHIP R 10K J 1/10W		
R38			RK73FB2A153J	CHIP R 15K J 1/10W		
R39			RK73FB2A752J	CHIP R 7.5K J 1/10W		
R40			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R41			RK73FB2A224J	CHIP R 220K J 1/10W		
R42			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R43			RK73FB2A473J	CHIP R 47K J 1/10W		
R44			RK73FB2A104J	CHIP R 100K J 1/10W		
R45			RK73FB2A123J	CHIP R 12K J 1/10W		
R46			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R47			RK73FB2A680J	CHIP R 68 J 1/10W		
R49 ,50			RK73EB2B103J	CHIP R 10K J 1/8W		
R61 ,62			RK73FB2A912J	CHIP R 9.1K J 1/10W		
R63 ,64			RK73FB2A473J	CHIP R 47K J 1/10W		
R65 ,66			RK73FB2A512J	CHIP R 5.1K J 1/10W		
R67			RK73EB2B432J	CHIP R 4.3K J 1/8W		
R68			RK73FB2A432J	CHIP R 4.3K J 1/10W		
R69 ,70			RK73FB2A183J	CHIP R 18K J 1/10W		
R71			RK73FB2A101J	CHIP R 100 J 1/10W		
R73			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R74			RK73FB2A203J	CHIP R 20K J 1/10W		
R75 ,76			RK73FB2A103J	CHIP R 10K J 1/10W		
R77			RK73FB2A203J	CHIP R 20K J 1/10W		
R78			RK73FB2A221J	CHIP R 220 J 1/10W		
R79 ,80			RK73FB2A473J	CHIP R 47K J 1/10W		
R81 ,82			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R83 ,84			RK73FB2A752J	CHIP R 7.5K J 1/10W		
R85 ,86			RK73FB2A101J	CHIP R 100 J 1/10W		
R87 ,88			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R100			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R101,102			RK73FB2A273J	CHIP R 27K J 1/10W		
R103			RK73EB2B222J	CHIP R 2.2K J 1/8W		
R104			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R107			RK73EB2B223J	CHIP R 22K J 1/8W		
R108,109			RK73FB2A472J	CHIP R 4.7K J 1/10W	D	
R110			RK73FB2A132J	CHIP R 1.3K J 1/10W	D	
R132			RK73FB2A101J	CHIP R 100 J 1/10W		
R133-136			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R137,138			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R141			R92-0365-05	CHIP R 1K J 1/2W		
R142			RK73FB2A103J	CHIP R 10K J 1/10W		
R143,144			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R145,146			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R147,148			RK73EB2B100J	CHIP R 10 J 1/8W		
R149,150			RK73EB2B753J	CHIP R 75K J 1/8W		
R151-154			RK73EB2B2R2J	CHIP R 2.2 J 1/8W		
R155			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R156			RK73FB2A103J	CHIP R 10K J 1/10W		
R157			RK73EB2B180J	CHIP R 18 J 1/8W		
R158			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R159			RK73FB2A471J	CHIP R 470 J 1/10W		
R160			RK73FB2A473J	CHIP R 47K J 1/10W		
R161			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R162			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R163,164			RK73FB2A273J	CHIP R 27K J 1/10W		

D:KRC-453D

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R165			RK73EB2B180J	CHIP R 18 J 1/8W		
R166, 167			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R168			RK73FB2A223J	CHIP R 22K J 1/10W		
R169			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R171, 172			RK73FB2A103J	CHIP R 10K J 1/10W		
R175-177			RK73FB2A473J	CHIP R 47K J 1/10W		
R178			RK73FB2A101J	CHIP R 100 J 1/10W		
R179			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R180			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R181			RK73FB2A224J	CHIP R 220K J 1/10W	D	
R182			RK73FB2A684J	CHIP R 680K J 1/10W	D	
R183			RK73FB2A473J	CHIP R 47K J 1/10W	D	
R184			RK73EB2B431J	CHIP R 430 J 1/8W	D	
R185			RK73EB2B104J	CHIP R 100K J 1/8W	D	
R186			RK73FB2A182J	CHIP R 1.8K J 1/10W	D	
R187			RK73FB2A683J	CHIP R 68K J 1/10W	D	
R188			RK73FB2A244J	CHIP R 240K J 1/10W	D	
R189			RK73FB2A333J	CHIP R 33K J 1/10W	D	
R190			RK73FB2A123J	CHIP R 12K J 1/10W	D	
R191			RK73FB2A563J	CHIP R 56K J 1/10W	D	
R192			RK73FB2A273J	CHIP R 27K J 1/10W	D	
R193			RK73FB2A564J	CHIP R 560K J 1/10W	D	
R194			RK73EB2B180J	CHIP R 18 J 1/8W	D	
R195			RK73FB2A102J	CHIP R 1.0K J 1/10W	D	
R196			RK73FB2A103J	CHIP R 10K J 1/10W	D	
R197			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R198			RK73FB2A223J	CHIP R 22K J 1/10W		
R199			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R201			R92-2021-05	CHIP R 2.2 J 1/2W		
R202			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R203			RK73FB2A103J	CHIP R 10K J 1/10W		
R204-207			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R208-212			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R213, 214			RK73FB2A473J	CHIP R 47K J 1/10W		
R215, 216			RK73FB2A223J	CHIP R 22K J 1/10W		
R217			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R218			RK73FB2A103J	CHIP R 10K J 1/10W		
R220, 221			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R222			RK73FB2A223J	CHIP R 22K J 1/10W		
R223, 224			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R225			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R226			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R227			RK73FB2A102J	CHIP R 1.0K J 1/10W	D	
R227, 228			RK73FB2A102J	CHIP R 1.0K J 1/10W	L, N	
R228			RK73FB2A223J	CHIP R 22K J 1/10W	D	
R229			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R230			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R231			RK73FB2A104J	CHIP R 100K J 1/10W		
R232			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R233			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R234, 235			RK73FB2A223J	CHIP R 22K J 1/10W		
R236			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R237, 238			RK73FB2A103J	CHIP R 10K J 1/10W		
R239			RK73FB2A473J	CHIP R 47K J 1/10W		
R240, 241			RK73FB2A223J	CHIP R 22K J 1/10W		

D:KRC-453D

L:KRC-453L

N:KRC-453N

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KRC-453 D/L/N

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R242			RK73FB2A102J	CHIP R 1.0K J 1/10W	D	
R243			RK73FB2A103J	CHIP R 10K J 1/10W		
R245-250			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R251, 252			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R253			RK73FB2A223J	CHIP R 22K J 1/10W		
R254			RK73FB2A220J	CHIP R 22 J 1/10W	L, N D	
R255-257			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R258-261			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R259-261			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R262			RK73FB2A473J	CHIP R 47K J 1/10W		
R263, 264			RK73EB2B102J	CHIP R 1.0K J 1/8W	D D	
R265			RK73FB2A101J	CHIP R 100 J 1/10W		
R266			RK73EB2B473J	CHIP R 47K J 1/8W		
R500			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R501			RK73FB2A334J	CHIP R 330K J 1/10W		
VR3			R12-3127-05	TRIMMING POT.(10K)	D	
VR4			R12-3129-05	TRIMMING POT.(22K)		
VR5			R12-1090-05	TRIMMING POT.(4.7K)		
VR6			R12-1086-05	TRIMMING POT.(2.2K)		
VR7			R12-3685-05	TRIMMING POT.(10K)		
VR8			R12-0605-05	TRIMMING POT.(220)	D	
VR9			R24-3646-05	POTENTIOMETER(80X1, 20KX3)		
W1 -47			R92-2053-05	CHIP R 0 J 1/8W		
W49 -65			R92-2053-05	CHIP R 0 J 1/8W		
W68 ,69			R92-2053-05	CHIP R 0 J 1/8W		
W81 -92			R92-2052-05	CHIP R 0 J 1/10W	L, N D D L, N	
W94 -100			R92-2052-05	CHIP R 0 J 1/10W		
W103-107			R92-2052-05	CHIP R 0 J 1/10W		
W108			R92-2053-05	CHIP R 0 J 1/8W		
W109, 110			R92-2052-05	CHIP R 0 J 1/10W		
W112-114			R92-2052-05	CHIP R 0 J 1/10W	L, N D D L, N	
W116			R92-2052-05	CHIP R 0 J 1/10W		
W120			R92-2052-05	CHIP R 0 J 1/10W		
W201			R92-2052-05	CHIP R 0 J 1/10W		
W204, 205			R92-2052-05	CHIP R 0 J 1/10W		
W207, 208			R92-2053-05	CHIP R 0 J 1/8W	L, N D D L, N	
W215			R92-2052-05	CHIP R 0 J 1/10W		
W219			R92-2052-05	CHIP R 0 J 1/10W		
W220			R92-2053-05	CHIP R 0 J 1/8W		
W221			R92-2052-05	CHIP R 0 J 1/10W		
W223-225			R92-2053-05	CHIP R 0 J 1/8W	D L, N D D D	
W223, 224			R92-2053-05	CHIP R 0 J 1/8W		
W226			R92-2052-05	CHIP R 0 J 1/10W		
W500			R92-2053-05	CHIP R 0 J 1/8W		
D3			RD6.2JS(B2)	ZENER DIODE		
D4			DAP202K	DIODE		
D5 -8			MA110	DIODE		
D5 -8			1SS355	DIODE		
D9 ,10			1S1555	DIODE		
D12			ERA15-01	DIODE		
D13			RM10Z	DIODE		
D14 -17			MA110	DIODE		
D14 -17			1SS355	DIODE		
D18			MA8068-M	ZENER DIODE		

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D19			MA110	DIODE		
D19			1SS355	DIODE		
D20			SD184-1	DIODE		
D21 ,22			MA110	DIODE		
D21 ,22			1SS355	DIODE		
D23			HZS11B2L	ZENER DIODE		
D24 -27			MA110	DIODE		
D24 -27			1SS355	DIODE		
D28 -35			1SS176	DIODE		
D37			1SS176	DIODE	L, N	
D38 -40			MA110	DIODE		
D38 -40			1SS355	DIODE		
D41 ,42			DAN202K	DIODE		
D43			MA110	DIODE		
D43			1SS355	DIODE		
D44			ERA15-01	DIODE		
D45 ,46			MA110	DIODE		
D45 ,46			1SS355	DIODE		
D500			MA110	DIODE	D	
D500			1SS355	DIODE	D	
IC1			BA3424F	IC		
IC3			LA1140	IC(FM IF/DETECTION)		
IC4			AN7465K	IC		
IC5			M5280FP	IC		
IC6 ,7			NJM4565MD	IC(OP AMP X2)		
IC10			TA8215H	IC		
IC11			BA3906-V1	IC		
IC12		*	1723GF-593-3BE	IC	D	
IC12		*	1723GF-594-3BE	IC	L, N	
IC13			TC4081BF	IC(AND X4)		
IC14			NJM4565M	IC	D	
IC15			TDA1579	IC(DECODER)	D	
Q3			2SC2413K	TRANSISTOR		
Q4 -6			2SC2412K	TRANSISTOR		
Q7			DTC144EK	DIGITAL TRANSISTOR		
Q10 -14			DTC144EK	DIGITAL TRANSISTOR		
Q15 -20			2SD1757K	TRANSISTOR	D	
Q17 -20			2SD1757K	TRANSISTOR	L, N	
Q21 ,22			2SK433	FET		
Q23 -25			DTC144EK	DIGITAL TRANSISTOR	L, N	
Q23 ,24			DTC144EK	DIGITAL TRANSISTOR	D	
Q26 ,27			DTA144EK	DIGITAL TRANSISTOR	L, N	
Q27			DTA144EK	DIGITAL TRANSISTOR	D	
Q29			DTC144EK	DIGITAL TRANSISTOR		
Q30 -32			2SC2412K	TRANSISTOR		
Q33			DTC144EK	DIGITAL TRANSISTOR	D	
Q34			DTA114EK	DIGITAL TRANSISTOR		
Q35			DTC144EK	DIGITAL TRANSISTOR		
Q36			DTA144EK	DIGITAL TRANSISTOR		
Q37			2SB1370	TRANSISTOR		
Q38			2SC2412K	TRANSISTOR		
Q39			DTA144EK	DIGITAL TRANSISTOR		
Q41			2SC2412K	TRANSISTOR	D	
Q42 -44			DTC144EK	DIGITAL TRANSISTOR		
Q46 -48			2SA1037K	TRANSISTOR	D	

D:KRC-453D

L:KRC-453L

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PARTS LIST

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Q46 ,47 Q49 Q51 -54 Q55 Q56			2SA1037K DTC144EK 2SC2412K DTA144EK DTC114EK	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	L, N	
Q57 Q58			2SA1428(O, Y) 2SC2412K	TRANSISTOR TRANSISTOR		
TU1 TU1	3D 3D	* *	W02-1279-15 W02-1280-15	TUNER ASSY TUNER ASSY	D L, N	
PL5 PL5 PL6 PL6			B30-1346-05 B30-1353-05 B30-1350-05 B30-1351-05	LAMP (5.5V, 125A AMB) LAMP (5.5V, 125MA) LAMP (5.5V, 125MA) LAMP (5.5V, 125MA)	D, L N D, L N	
DAUGHTER UNIT (X89-128X-XX)						
C1 -3 C11 ,12 C13 -15 C16 C53 -56			C92-0005-05 CK73EB1H103K CK73FB1H103K C92-0005-05 CK73FB1H102K	ELECTRO 2.2UF 6.3WV CHIP C 0.01UF K CHIP C 0.010UF K ELECTRO 2.2UF 6.3WV CHIP C 1800PF K		
C57 ,58 C59 ,60 C61 ,62 C63			CK73FB1H223KTA CC73FCH1H030C CE04DW1E4R7M CE04DW1A101M	CHIP C 0.022UF K CHIP C 3PF C ELECTRO 4.7UF 25WV ELECTRO 100UF 10WV		
CN20	1D		E08-4001-05	RECTANGULAR RECEPTACLE		
N	1D		N80-2005-46	PAN HEAD TAPTITE SCREW		
R1 R2 R3 R4 R5			RK73FB2A022J RK73FB2A472J RK73EB2B332J RK73FB2A472J RK73FB2A105J	CHIP R 8.2K J 1/10W CHIP R 4.7K J 1/10W CHIP R 3.3K J 1/8W CHIP R 4.7K J 1/10W CHIP R 1.0M J 1/10W		
R6 R7 R8 R9 R12 ,13			RK73FB2A223J RK73FB2A473J RK73EB2B101J RK73FB2A223J RK73FB2A472J	CHIP R 22K J 1/10W CHIP R 47K J 1/10W CHIP R 100 J 1/8W CHIP R 22K J 1/10W CHIP R 4.7K J 1/10W		
R21 R22 R23 R24 R25 ,26			RK73FB2A473J RK73EB2B473J RK73FB2A472J RK73EB2B472J RK73FB2A101J	CHIP R 47K J 1/10W CHIP R 47K J 1/8W CHIP R 4.7K J 1/10W CHIP R 4.7K J 1/8W CHIP R 100 J 1/10W		
R27 ,28 R29 R30 R31 -33 R34			RK73FB2A472J RK73FB2A101J RK73EB2B103J RK73FB2A102J RK73FB2A472J	CHIP R 4.7K J 1/10W CHIP R 100 J 1/10W CHIP R 10K J 1/8W CHIP R 1.0K J 1/10W CHIP R 4.7K J 1/10W		
R35 ,36 R37 ,38 R45 R46 R47 ,48			RK73FB2A104J RK73FB2A223J RK73FB2A472J RK73EB2B472J RK73EB2B103J	CHIP R 100K J 1/10W CHIP R 22K J 1/10W CHIP R 4.7K J 1/10W CHIP R 4.7K J 1/8W CHIP R 18K J 1/8W		
R49 ,50			RK73EB2B100J	CHIP R 10 J 1/8W		

D:KRC-453D

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KRC-453 D/L/N

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R51			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R52			RK73EB2B472J	CHIP R 4.7K J 1/8W		
R53 ,54			RK73EB2B183J	CHIP R 18K J 1/8W		
R55 ,56			RK73EB2B101J	CHIP R 100 J 1/8W		
R57			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R58			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R59 ,60			RK73FB2A153J	CHIP R 15K J 1/10W		
R61 ,62			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R63			RK73FB2A101J	CHIP R 100 J 1/10W		
VR1 ,2			R10-4031-15	POTENTIOMETER		
W1			R92-2052-05	CHIP R 0 J 1/10W		
W3 ,4			R92-2052-05	CHIP R 0 J 1/10W		
W5 ,6			R92-2053-05	CHIP R 0 J 1/8W		
W7 ,8			R92-2052-05	CHIP R 0 J 1/10W		
W11 ,12			R92-2052-05	CHIP R 0 J 1/10W		
W17			R92-2053-05	CHIP R 0 J 1/8W		
W21			R92-2052-05	CHIP R 0 J 1/10W		
W22 -31			R92-2053-05	CHIP R 0 J 1/8W		
D1			MA8068-M	ZENER DIODE		
D2 ,3			MA110	DIODE		
D2 ,3			1SS355	DIODE		
D4			DAN202K	DIODE		
D11			MA110	DIODE		
D11			1SS355	DIODE		
D12			ERA15-01	DIODE		
D13			MA110	DIODE		
D13			1SS355	DIODE		
IC1			TC74HC04AF	IC(INVERTER)		
IC2		*	NJM4565L-D	IC(OP AMP X2)		
Q1 -3			DTC144EK	DIGITAL TRANSISTOR		
Q4 -6			2SC2412K	TRANSISTOR		
Q7			DTC114TK	DIGITAL TRANSISTOR		
Q11			DTC144EK	DIGITAL TRANSISTOR		
Q12			2SC2412K	TRANSISTOR		
Q13			DTC144EK	DIGITAL TRANSISTOR		
Q14			2SA1037K	TRANSISTOR		
PL1 -4			B30-1305-05	LAMP (5.5V .125A)	D,L	
PL1 -4			B30-1306-05	LAMP (5.5V .125A)	N	
MECHANISM ASSY (D40-1023-05)						
1	2A		A10-2089-08	CHASSIS CALKED ASSY		
2	2B		J21-7207-08	MOUNTING HARDWARE		
3	3A		D14-0616-08	ROLLER A		
4	3A		N24-3012-41	E TYPE RETAINING RING		
5	2B		D14-0617-08	ROLLER B		
6	2B		D14-0618-08	PINCH ROLLER F		
7	2A		D14-0619-08	PINCH ROLLER R		
8	3A		D10-2666-08	LEVER (FR CAM)		
9	2B		D10-2667-08	LEVER (PROGRAM)		
10	2A		G01-2560-08	TENSION SPRING		
11	3A		D13-1079-08	GEAR (IDLE)		
12	3A, 3B		D13-1081-08	GEAR (TAKE UP)		
13	2B		D15-0908-08	PULLEY		
14	3B		D10-2668-08	LEVER		

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15	3B		D10-2679-08	LEVER		
16	3B		G01-2557-08	TENSION SPRING		
17	3A, 3B		D01-0603-08	FLYWHEEL		
20	3A		D10-2669-08	LEVER		
21	2A		D10-2670-08	LEVER (LOCK)		
22	2A		G01-2218-08	TENSION SPRING		
23	2A		N84-2004-45	SCREW (M2X4)		
25	3B		D13-1078-08	GEAR		
30	3A		A11-0848-08	SUB CHASSIS ASSY		
31	3A		A11-0847-08	SUB CHASSIS ASSY		
32	3A		D13-1077-08	GEAR (SWITCHING)		
33	3A		G01-2563-08	TORSION SPRING		
35	3A	*	G01-2579-18	TENSION SPRING		
36	3A		G02-0473-08	FLAT SPRING		
37	3A	*	D10-2645-18	LEVER		
38	3A	*	D10-2671-18	LEVER		
39	3A		G10-1012-08	FELT		
40	3A		D03-0305-08	REEL DISK		
41	2B		N14-0701-08	NUT		
43	2B		N30-2004-46	SCREW (M2X4)		
44	2B		G01-2573-08	TORSION SPRING		
45	2B		G01-2571-08	TENSION SPRING		
51	2A		D10-2672-08	LEVER (EJECT)		
52	2A		G01-2216-08	TENSION SPRING		
53	2A		D10-2673-08	ACTION ARM		
54	2A		G01-2217-08	TENSION SPRING		
60	1B		J19-4387-08	HOLDER		
61	1B		J19-4380-08	HOLDER		
63	1B		G01-2212-08	TENSION SPRING		
64	1B		D10-2130-08	LEVER (INV)		
65	1A		J90-0610-08	CASSETTE GUIDE		
66	1A		G01-2225-08	TORSION SPRING		
67	1A		G09-0093-08	SPRING		
68	1A		J19-2990-08	HOLDER		
69	1B		N39-2004-08	SCREW (M2X4)		
70	1A	*	G11-1065-08	CUSHION		
71	1B		J21-7264-08	MOUNTING HARDWARE		
72	1B		D10-2674-08	LEVER (RELEASE)		
73	1B		G01-2574-08	TORSION SPRING		
74	1B		G01-2556-08	TENSION SPRING		
77	1B		N39-1706-45	SCREW (M1.7X6)		
78	1B		D10-2675-08	LEVER (REW)		
79	1B		D10-2676-08	LEVER (FF)		
81	1B		G01-2572-08	TENSION SPRING		
83	1B		N09-4039-08	SCREW		
84	2B		D10-2677-08	LEVER (SW)		
85	2B		J74-0040-08	PRINTED WIRING BOARD		
86	2B		J84-0009-08	PRINTED WIRING BOARD (FPC)		
92	2A		N39-2002-46	SCREW (M2X2)		
101	2A		J21-7205-08	MOUNTING HARDWARE		
102	2A		D10-2664-08	LEVER		
103	2A		G01-2567-08	TENSION SPRING		
109	2A		N30-2003-08	SCREW (M2X3)		
112	3B		D16-0605-08	BELT		
121	1A		D10-2658-08	ARM		

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122	1A		D10-2678-08	LEVER		
123	1A		J12-0647-08	PIN		
124	1A		G01-2562-08	TORSION SPRING		
125	2B		J90-0722-08	CASSETTE GUIDE		
126	2B		N09-4009-08	SCREW (M2X5)		
127	1B		N35-2006-46	SCREW (M2.6X6)		
152	2A, 2B		N90-2003-46	SCREW (M2X3)		
153	3A		N30-2603-46	SCREW (M2.6X3)		
161	3A, 3B		N19-1144-08	FLAT WASHER		
162	2B, 3A		N19-1134-08	FLAT WASHER		
163	2A, 2B		N19-1135-08	FLAT WASHER		
164	3A, 3B		N19-1137-08	FLAT WASHER		
181	2A		E40-9127-05	PIN CONNECTOR		
182	2B		J19-4389-08	HOLDER		
HD1	2B		T31-0205-08	PLAYBACK HEAD		
M1	2A		T42-0716-08	DC MOTOR ASSY		
S1	2A		S31-3633-08	SLIDE SWITCH		
S2	2B		S31-3634-08	SLIDE SWITCH		
S3	1B		S46-1606-08	LEAF SWITCH		
S4	1B		S46-1607-08	LEAF SWITCH		

D:KRC-453D

L:KRC-453L

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KRC-453 D/L/N

SPECIFICATIONS

Specifications subject to change without notice.

FM Tuner Section

Frequency Range 87.5MHz - 108.0MHz
Usable Sensitivity (DIN) 1.1 μ V/75ohms
Stereo Sensitivity (S/N = 46dB) 1.6 μ V/75ohms
Frequency Response (\pm 4.5dB) 30Hz - 15kHz
Signal to Noise Ratio (IEC - A) 68dB
Selectivity (DIN) 70dB
Stereo Separation (1kHz) 35dB
19kHz Carrier Leakage 65dB

MW Tuner Section

Frequency Range 531kHz - 1611kHz
Usable Sensitivity 30 μ V

LW Tuner Section

Frequency Range 153kHz - 281kHz
Usable Sensitivity 60 μ V

Cassette Deck Section

Tape Speed 4.76cm/sec.
Wow & Flutter (WRMS) 0.12% (WRMS)
Fast Winding Time (C - 60) 100sec.
Frequency Response (120 μ s) 30Hz - 14kHz (+ 4dB, - 6dB)
(70 μ s) 30Hz - 16kHz (+ 4dB, - 6dB)
Stereo Separation (1kHz) 40dB
Signal to Noise Ratio 52dB

Audio Section

Maximum Output Power 25W \times 2 or 15W \times 4
Output Power (10% THD, 1kHz, 4ohms) 20W \times 2
(1% THD, 1kHz, 4ohms) 15W \times 2
Tone Action Bass : 100Hz \pm 10dB
Treble : 10kHz \pm 10dB
Preout level/Impedance 800mV (max.) / 180ohms

General

Operating Voltage 14.4V (11 - 16V allowable)
Current Consumption 6A at Rated Power
Dimensions (W \times H \times D) 188 \times 58 \times 177 mm
Installation size (W \times H \times D) 182 \times 52 \times 159 mm
Weight 2.0kg

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION

2201 East Dominguez Street, Long Beach, CA 90810;
550 Clark Drive, Mount Olive, NJ 07828, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 KESTREL ROAD MISSISSAUGA, ONTARIO L5T 1S8

TRIO-KENWOOD U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.

Mechelsesteenweg 418 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker-Str. 15, 6056 Heusenstamm, Germany

TRIO-KENWOOD FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD LINEAR S.p.A.

20125, MILANO-VIA ARBE, 50, ITALY

KENWOOD ELECTRONICS AUSTRALIA PTY LTD. (INCORPORATED IN N.S.W.)

P.O. Box 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 4th Floor, 34-37, Connaught Road, Central, Hong Kong